

Village of Beverly Hills
Regular Village Council Meeting
Tuesday, July 20, 2021

Municipal Building
18500 W. 13 Mile Road
7:30 p.m.

Zoom link: <https://us02web.zoom.us/j/89799083501>

Meeting ID: 897 9908 3501

Dial in Number: 1-646-876-9923 (US)

AGENDA

Roll Call/Call to order

Pledge of Allegiance

Amendments to Agenda/Approve Agenda

Community Announcements

Public Comments on items not on the published agenda

Consent Agenda

1. Review and consider approval of **minutes** of a regular Council meeting held July 6, 2021.
2. Review and file **bills** recapped as of Monday, July 19, 2021.

Business Agenda

1. Review and consider Parks & Recreation Board's **request** to host a Concert in the Park in August 2021.
2. First **announcement** of a vacancy on the Zoning Board of Appeals.
3. Receive and file **MERS Annual Actuarial Valuation** for year ending December 31, 2020.
4. Review and consider **resolution** authorizing Administration to submit a 2021 OAKSTEM Program Application to Oakland County.
5. Refer **site plans** for development at 31655 Southfield Road to the Planning Commission for review and recommendation.
6. Review and consider **resolution** designating the Village of Beverly Hills' representatives at the Michigan Municipal League's Annual Meeting.

Public comments

Manager's **report**

Council comments

Adjournment

This will be a hybrid meeting held in person in the Village Council Chambers with a remote participation option available via Zoom due to the COVID-19 pandemic.

The Village of Beverly Hills will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audiotapes of printed materials being considered at the meeting, to individuals with disabilities attending the meeting upon three working days' notice to the Village. Individuals with disabilities requiring auxiliary aids or services should contact the Village by writing or phone, 18500 W. Thirteen Mile Beverly Hills, MI 48025 (248) 646-6404.

REGULAR COUNCIL MEETING MINUTES – JULY 6, 2021 – PAGE 1

Present: President George; President Pro-Tem Hrydziuszko; Members: Abboud, Kecskemeti, Mooney, O’Gorman, and Peddie

Absent: None

Also Present: Village Manager, Wilson
Village Clerk / Assistant Manager, Rutkowski
Village Attorney, Ryan
Public Safety Director, Torongeau

President George called the regular Village Council meeting to order at 7:30 p.m. in the Village Council Chambers located at 18500 W. Thirteen Mile Road, Beverly Hills, MI 48025. The Pledge of Allegiance was recited by those in attendance.

AMENDMENTS TO AGENDA/APPROVE AGENDA

Motion by Mooney, second by Peddie, to amend the agenda to remove the Business Agenda items, Manager’s Report, and Council Comments due to the power outage at the Municipal Building.

Motion passed.

Motion by Mooney, second by Peddie, to approve the agenda as amended.

Motion passed.

COMMUNITY ANNOUNCEMENTS

None.

PUBLIC COMMENTS

None.

CONSENT AGENDA

Motion by Mooney, second by Peddie, be it resolved, the consent agenda is approved as published.

1. Review and consider approval of minutes of a regular Council meeting held June 15, 2021
2. Review and file bills recapped as of Monday, June 21, 2021.
3. Review and file bills recapped as of Tuesday, July 6, 2021.
4. Review and consider annual funding request from Birmingham Bloomfield Community Coalition.
5. Review and consider Parks & Recreation Board’s recommendation to approve ITP 5K Walk at Beverly Park on September 11, 2021.
6. Review and consider Parks & Recreation Board’s recommendation to approve Roeper School’s Cross Country Meet at Beverly Park on September 27, 2021.

Roll Call Vote:

Motion passed (7-0)

PUBLIC COMMENTS

None.

ADJOURNMENT

Motion by Mooney, second by Abboud, to adjourn the meeting at 7:34 p.m.

Motion passed.

John George
Council President

Kristin Rutkowski
Village Clerk



TO PRESIDENT GEORGE & MEMBERS OF THE VILLAGE COUNCIL. THE FOLLOWING IS A LIST OF
EXPENDITURES FOR APPROVAL. ACCOUNTS PAYABLE RUN FROM 07/06/2021 THROUGH 07/19/2021.

ACCOUNT TOTALS:

| | | |
|-----|-------------------------------|---------------------|
| 101 | GENERAL FUND | \$75,613.49 |
| 202 | MAJOR ROAD FUND | \$9,219.92 |
| 203 | LOCAL STREET FUND | \$15,979.18 |
| 205 | PUBLIC SAFETY DEPARTMENT FUND | \$23,801.73 |
| 592 | WATER/SEWER OPERATION FUND | \$344,312.99 |
| 701 | TRUST & AGENCY FUND | \$813.67 |
| | TOTAL | <u>\$469,740.98</u> |
| | MANUAL CHECKS- COMERICA | \$0.00 |
| | MANUAL CHECKS- INDEPENDENT | \$0.00 |
| | ACCOUNTS PAYABLE | <u>\$469,740.98</u> |
| | GRAND TOTAL | <u>\$469,740.98</u> |

07/17/2021 11:59 AM
User: JAY
DB: Beverly Hills

CHECK REGISTER FOR VILLAGE OF BEVERLY HILLS
CHECK DATE FROM 07/19/2021 - 07/19/2021

Page: 1/2

| Check Date | Bank | Check | Vendor | Vendor Name | Amount |
|-------------------|------|-------|--------|-------------------------------------|------------|
| Bank COM COMERICA | | | | | |
| 07/19/2021 | COM | 83966 | 60249 | 5 ALARM | 156.00 |
| 07/19/2021 | COM | 83967 | 51629 | ALLIANCE OF ROUGE COMMUNITIES | 3,630.00 |
| 07/19/2021 | COM | 83968 | 60217 | AMAZON CAPITAL SERVICES | 488.64 |
| 07/19/2021 | COM | 83969 | 60479 | ANNA CLARK -BELFOR PROPERTY RESTORA | 250.00 |
| 07/19/2021 | COM | 83970 | 31164 | APOLLO FIRE APPARATUS | 282.40 |
| 07/19/2021 | COM | 83971 | 53284 | APPLIED IMAGING | 12.34 |
| 07/19/2021 | COM | 83972 | 59125 | APPRIVER, LLC | 2,195.56 |
| 07/19/2021 | COM | 83973 | 51802 | ARROW OFFICE SUPPLY CO. | 201.25 |
| 07/19/2021 | COM | 83974 | 60481 | ASHLEY CONAWAY | 250.00 |
| 07/19/2021 | COM | 83975 | 32748 | BEIER HOWLETT,P.C. | 517.00 |
| 07/19/2021 | COM | 83976 | 51409 | BEVERLY HILLS ACE | 23.04 |
| 07/19/2021 | COM | 83977 | 30898 | BIRMINGHAM YOUTH ASSISTANCE | 13,000.00 |
| 07/19/2021 | COM | 83978 | 50489 | BOB ADAMS TOWING | 108.00 |
| 07/19/2021 | COM | 83979 | 60476 | CAMILLE FATH | 250.00 |
| 07/19/2021 | COM | 83980 | 51381 | CAROL GROMBALA | 250.00 |
| 07/19/2021 | COM | 83981 | 59347 | CINTAS CORPORATION #31 | 45.74 |
| 07/19/2021 | COM | 83982 | 59323 | CLEANNET | 858.00 |
| 07/19/2021 | COM | 83983 | 51439 | COMCAST | 101.85 |
| 07/19/2021 | COM | 83984 | 04500 | COMEAU EQUIPMENT CO INC. | 27,719.09 |
| 07/19/2021 | COM | 83985 | 50826 | CONSUMERS ENERGY | 293.45 |
| 07/19/2021 | COM | 83986 | 60118 | CRAWFORD WEBB JR | 250.00 |
| 07/19/2021 | COM | 83987 | 60482 | CYNTHIA WHITCOMB | 250.00 |
| 07/19/2021 | COM | 83988 | 52025 | DETROIT SALT COMPANY | 2,540.06 |
| 07/19/2021 | COM | 83989 | 59835 | DIANE SLON | 250.00 |
| 07/19/2021 | COM | 83990 | 60477 | DONNA SCHELBY | 250.00 |
| 07/19/2021 | COM | 83991 | 51385 | DTE ENERGY | 6,687.26 |
| 07/19/2021 | COM | 83992 | 31830 | ENTERPRISE COMPUTER | 1,994.00 |
| 07/19/2021 | COM | 83993 | 60468 | ERIN SPELLER | 6.00 |
| 07/19/2021 | COM | 83994 | 31228 | EXXONMOBIL | 4,119.99 |
| 07/19/2021 | COM | 83995 | 59813 | FIRE DEFENSE EQUIPMENT CO. | 164.41 |
| 07/19/2021 | COM | 83996 | 60475 | GEORGE OSTROWSKI | 250.00 |
| 07/19/2021 | COM | 83997 | 59837 | IVA TONCHEV | 250.00 |
| 07/19/2021 | COM | 83998 | 59374 | JACK RIPPER AND ASSOCIATES | 95.40 |
| 07/19/2021 | COM | 83999 | 60472 | JACKSON QUINN | 80.00 |
| 07/19/2021 | COM | 84000 | 59423 | JAMES HEALY | 360.00 |
| 07/19/2021 | COM | 84001 | 60473 | JAMES KEUSCH | 40.00 |
| 07/19/2021 | COM | 84002 | 60480 | JANE JAMES | 250.00 |
| 07/19/2021 | COM | 84003 | 60483 | JANET KEANE | 250.00 |
| 07/19/2021 | COM | 84004 | 59158 | JASON'S OUTDOOR SERVICES LLC | 425.00 |
| 07/19/2021 | COM | 84005 | 59324 | JCR SUPPLY, INC. | 506.38 |
| 07/19/2021 | COM | 84006 | 60469 | JUSTIN THOMAS | 284.94 |
| 07/19/2021 | COM | 84007 | 60484 | KIMBERLY GOCHA | 250.00 |
| 07/19/2021 | COM | 84008 | 53316 | LANG'S ON-SITE SERVICES | 270.00 |
| 07/19/2021 | COM | 84009 | 51792 | LEXISNEXIS RISK SOLUTIONS | 150.00 |
| 07/19/2021 | COM | 84010 | 51350 | LOU'S TRANSPORT INC. | 786.93 |
| 07/19/2021 | COM | 84011 | 49491 | MAINS LANDSCAPE SUPPLY | 322.92 |
| 07/19/2021 | COM | 84012 | 59116 | MARGARET A.S. BEKE | 126.67 |
| 07/19/2021 | COM | 84013 | 60474 | MICHELE SPENCER | 250.00 |
| 07/19/2021 | COM | 84014 | 52030 | MICHIGAN GRAPHICS & AWARDS | 118.00 |
| 07/19/2021 | COM | 84015 | 59614 | MICHIGAN MUNICIPAL LEAGUE | 5,163.00 |
| 07/19/2021 | COM | 84016 | 59330 | MIKE SAVOIE CHEVROLET | 3,651.36 |
| 07/19/2021 | COM | 84017 | 58903 | MUNIWEB | 170.00 |
| 07/19/2021 | COM | 84018 | 51799 | NYE UNIFORM EAST | 1,909.15 |
| 07/19/2021 | COM | 84019 | 51751 | O.C.W.R.C. | 33,807.83 |
| 07/19/2021 | COM | 84020 | 59735 | OAKLAND COMMUNITY COLLEGE/CREST | 500.00 |
| 07/19/2021 | COM | 84021 | 51831 | OAKLAND COUNTY MEDICAL CONTROL | 75.00 |
| 07/19/2021 | COM | 84022 | 60012 | OAKLAND COUNTY PARKS | 550.00 |
| 07/19/2021 | COM | 84023 | 50830 | OAKLAND COUNTY TREASURER'S | 227,379.76 |
| 07/19/2021 | COM | 84024 | 14100 | OBSERVER & ECCENTRIC | 65.16 |
| 07/19/2021 | COM | 84025 | 51946 | PAUL SHAPIRO | 374.00 |
| 07/19/2021 | COM | 84026 | 50502 | PITNEY BOWES CREDIT CORP. | 180.00 |
| 07/19/2021 | COM | 84027 | 50451 | ROBERT GINTHER | 97.75 |
| 07/19/2021 | COM | 84028 | 59488 | ROBERT SWOR | 250.00 |
| 07/19/2021 | COM | 84029 | 53260 | RYAN OGORMAN | 250.00 |
| 07/19/2021 | COM | 84030 | 16500 | S.O.C.R.R.A. | 34,690.00 |
| 07/19/2021 | COM | 84031 | 16600 | S.O.C.W.A. | 75,866.06 |
| 07/19/2021 | COM | 84032 | 60471 | SAM MERCER | 240.00 |
| 07/19/2021 | COM | 84033 | 60470 | SHARON MURRAY | 374.00 |
| 07/19/2021 | COM | 84034 | 59805 | SHIRLEY WIGMAN | 250.00 |
| 07/19/2021 | COM | 84035 | 38145 | SOUTHFIELD POSTAL SERVICE | 406.68 |
| 07/19/2021 | COM | 84036 | 51571 | SUMMIT CHEMICAL CO. | 550.91 |
| 07/19/2021 | COM | 84037 | 17700 | SUNSET MAINTENANCE SERVICE | 1,200.00 |
| 07/19/2021 | COM | 84038 | 53226 | SWANK MOTION PICTURES, INC. | 715.00 |
| 07/19/2021 | COM | 84039 | 31043 | THOMAS J RYAN PC. | 8,000.00 |
| 07/19/2021 | COM | 84040 | 60478 | WILLIAM MONTGOMERY | 250.00 |
| 07/19/2021 | COM | 84041 | 60262 | YAMAN AL-HADIDI | 250.00 |
| 07/19/2021 | COM | 84042 | 20900 | ZIP ETC INC | 315.00 |

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CHECK REGISTER FOR VILLAGE OF BEVERLY HILLS
CHECK DATE FROM 07/19/2021 - 07/19/2021

Page: 2/2

| Check Date | Bank | Check | Vendor | Vendor Name | Amount |
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COM TOTALS:

| | | | | | |
|----------------------------|--|--|--|--|-------------------|
| Total of 77 Checks: | | | | | 469,740.98 |
| Less 0 Void Checks: | | | | | 0.00 |
| Total of 77 Disbursements: | | | | | <u>469,740.98</u> |



To: Honorable Council President George; Village Council Members
Chris Wilson, Village Manager

From: Kristin Rutkowski, Village Clerk/Assistant Village Manager

Subject: Concert in the Park 2021

Date: July 1, 2021

The Parks & Recreation Board is requesting Council's approval to host a third Concert in the Park this summer on Friday, August 13, 2021 at Beverly Park beginning at 7:00 p.m. The Board held a successful concert event in June of 2021 and has one scheduled for July 16, 2021.

Part of the concert expense would include a stage rental from Oakland County Parks in the amount of \$550.00 (agreement attached). The band(s) are to be determined and would receive a stipend to perform at the concert.

Suggested Resolution:

Be it resolved, the Beverly Hills Village Council approves the Parks & Recreation Board's request to host a Concert in the Park on Friday, August 13, 2021 at 7:00 p.m., with expenses not to exceed \$1,500.00. Be it further resolved, the Council authorizes Administration to execute the Facility/Property Use Agreement with Oakland County Parks. Funds for this expense are available in account 101-747-894.00.

Attachment



FACILITY/PROPERTY USE AGREEMENT

This Agreement is between the Oakland County Parks and Recreation Commission ("OCPRC") and the entity/person listed below for the use of the facility/property described below. This Agreement includes the General Terms and Conditions, the Insurance Requirements, and the Rules for Specific Facility/Property (collectively the "Agreement").

Name of Entity/Person using Facility/Property (hereinafter "User"):

Address:

Contact Person:

Telephone Number:

E-Mail Address:

Facility/Property to be used (hereinafter "Property"):

Event/Activity:

Date/Start Time and End Time:

Fee:

Amount of Security Deposit:

Insurance Requirements: (If User answers "Yes" to any of the below questions, then user shall provide and maintain, at its expense, the insurance as set forth herein, beginning on page 6.)

Yes No

Is this reservation/event for a Wedding?

Is there expected to be more than 250 people in attendance at the event/facility?

Is the reservation being booked by an organized entity/group (not an individual)?

Will there be alcohol provided (not sold) at the event?

Will there be alcohol SOLD at the event? (Subject to OCPRC approval)

Reservation Number:

By signing, I acknowledge that I have received and read the entire Agreement and I agree to comply with all the terms and conditions of this Agreement. I certify that all information provided to OCPRC, in connection with this Agreement, is true and accurate. If, at any time, before the Event/Activity any information that I provided changes, I will inform OCPRC of the changes. The Property will not be reserved until this Agreement is signed and the Fee and Security Deposit are paid in full.

Signature

Date

Name & Title:

GENERAL TERMS AND CONDITIONS

1. Use of Property.

- 1.1. **Use:** User may exclusively use the Property according to this Agreement and for the purposes set forth herein and for no other purposes. OCPRC provides the Property for use by the public on a first-come, first-served basis with the primary intent to provide quality recreation experiences, promote healthy lifestyles, and promote the protection of natural resources.
- 1.2. **Payment of Fee and Security Deposit:** The Fee and Security Deposit are due, in full, at the time this Agreement is signed. Payment may be made by cash, check, or credit card (VISA, Mastercard, or Discover). If the reservation is made less than 14 calendar days before the Date/Start Time listed in this Agreement, payment may only be made by cash or credit card.
- 1.3. **Cancellation/Termination by User & Refunds:** User may cancel/terminate this Agreement up to the Date/Start Time listed in this Agreement with the following charges:
 - 1.3.1. **Cancellation/Termination 30 Days or More Before Date/Start Time.** If User cancels/terminates this Agreement 30 calendar days or more prior to the Date/Start Time listed in this Agreement, then the entire Fee and Security Deposit will be refunded to User, except for \$25 or 10% of the Fee, whichever amount is greater. This amount shall be kept by OCPRC to cover administrative costs.
 - 1.3.2. **Cancellation/Termination Less than 30 Days Before Date/Start Time.** If User cancels/terminates this Agreement less than 30 days from the Date/Start Time listed in this Agreement, then only the Security Deposit will be refunded to User. OCPRC will keep the entire Fee as a cancellation/termination charge to cover administrative costs and missed business opportunities.
- 1.4. **Change in Reservation.** If User changes its reservation for use of the Property prior to the Date/Start Time listed in this Agreement, User may be responsible for additional costs or additional fees associated with such change.
- 1.5. **Return of Security Deposit.** The Security Deposit will be returned in full to User within twenty-one (21) business days from the Date/End Time listed in this Agreement, unless one or more of the following events occur: (1) User or its employees, agents, volunteers, subcontractors, invitees, and/or any other persons on or using the Property because of this Agreement violates or does not comply with any term or condition of this Agreement or (2) User does not return the Property in the same condition as User received it, normal wear and tear excepted. If one of the above-listed events occurs, then User forfeits the entire Security Deposit and OCPRC shall keep the Security Deposit to cover its costs. There will be no partial refunds of the Security Deposit.
- 1.6. **Manner of Security Deposit Refund.** If User pays the Security Deposit with a check or cash, the Security Deposit will be refunded (if warranted) by check. If User pays the Security Deposit with a credit card, the Security Deposit will be refunded (if warranted) to the credit card; however, OCPRC reserves the right to refund the Security Deposit via check. If the Security Deposit is refunded by check, the check will be made out to the person(s) or entity(ies) who are party to this Agreement.
- 1.7. **Condition of Property.** User shall keep the Property in good order, in a clean and safe condition, and free of trash. Except for normal wear and tear, User's use of the Property shall not cause damage or waste to the Property and shall not disrupt OCPRC's operations on or around the Property. User is responsible for putting all trash and debris into trash cans and removing and disposing of all decorations used on or around the Property.

- 1.8. **Condition of Property upon end of Agreement.** Except for normal wear and tear, User shall leave or return the Property in the same condition that User found it. The Property must be clean and free of all trash and debris at the end of this Agreement. All trash and debris shall be placed in the appropriate trash receptacle.
- 1.9. **Compliance with Law and Park Rules.** User, including its employees, agents, invitees, volunteers, subcontractors, and any other persons on the Property because of User's use of the Property, must comply with all applicable federal, state, and local laws, regulations, and ordinances, the OCPRC Rules and Regulations, the provisions of this Agreement, and any specific rules for the Property. Failure to comply with this Section may result in the immediate termination of the use of the Property, without advance notice to User and without refund of the Fee or Security Deposit, at OCPRC's sole discretion.
- 1.10. **Signs/Advertisement.** User shall not place any signs or advertisements on the Property without the prior written approval of the OCPRC Park Supervisor. User shall not use the Property in User advertising or informational documents (either electronic or printed copies) without the prior written approval of OCPRC Executive Officer or his/her designee.
- 1.11. **Alterations, Additions, Changes to Property.** User shall not make any alterations, additions, or changes to the Property, unless prior written approval is given by OCPRC Executive Officer or his/her designee.
- 1.12. **Property AS IS.** USER ACCEPTS THE PROPERTY "AS IS." USER ACKNOWLEDGES THAT USER HAD THE OPPORTUNITY TO INSPECT THE PROPERTY AND EITHER INSPECTED THE PROPERTY OR CHOSE NOT TO INSPECT THE PROPERTY.
- 1.13. **Alcohol Use on Property.**
 - 1.13.1. Alcoholic beverages may be consumed, served, and/or sold on the Property, subject to law and the OCPRC Rules and Regulations; except that there are no alcoholic beverages permitted at park beaches, waterparks, or waterpark parking lots.
 - 1.13.2. User shall not sell or allow anyone to sell alcoholic beverages on the Property, unless prior written approval is given by the OCPRC.
 - 1.13.3. BY LAW, NO ONE UNDER 21 MAY CONSUME OR TASTE ALCOHOLIC BEVERAGES ON THE PROPERTY OR OTHER OAKLAND COUNTY PROPERTY. USER AGREES AND WARRANTS THAT THERE SHALL BE NO SERVICE OR SALE TO OR CONSUMPTION OF ALCOHOLIC BEVERAGES BY PERSONS UNDER AGE 21.
 - 1.13.4. User shall monitor service and consumption of alcoholic beverages at the Property. User specifically acknowledges that it is solely liable for the service and consumption of any alcoholic beverages at the Property and that such liability shall extend to any aspect regarding the service or consumption of alcoholic beverages.
- 1.14. **User Not Agent of County/OCPRC.** User, including its employees, agents, invitees, volunteers, subcontractors, and any other persons on the Property because of User's use of the Property, shall not, in any manner, hold themselves out to be agents, employees, or volunteers of OCPRC or Oakland County, Michigan ("County").
- 1.15. **Permits/Licenses.** User is responsible for and shall obtain, at its sole expense, all necessary licenses, permits, and other governmental approvals that are necessary for use of the Property, including a liquor license for the sale of alcoholic beverages (if the sale of alcoholic beverages is approved by the OCPRC).

2. **Liability/Assurances.**

- 2.1. **Damage to County or OCPRC Property.** User shall be responsible for any damage to the Property or to any County or OCPRC facility/property that is caused by User, its employees, agents, invitees, volunteers, subcontractors, vendors, or any other persons on or at the Property because of User's use of the Property. If there is more than one User, they shall be jointly and severally liable for such damage. If damage occurs, OCPRC shall make the necessary repairs and/or replacements or cause a third party to make the necessary repairs and/or replacements, provided, however, that User shall reimburse OCPRC the cost for repairing

and/or replacing the damaged facilities/property. OCPRC shall invoice User for such costs and User shall pay such costs within thirty (30) days of receiving the bill.

- 2.2. **Damage to User's Property.** User shall be solely and entirely liable and responsible for any loss or damage resulting from fire, theft or other means to its personal property located, kept, or stored on the Property.
- 2.3. **Liability for Claims.** User shall be solely liable and responsible for any Claims, as defined herein, occurring at or on the Property, which arise out of User's or its employees, agents, invitees, volunteers or subcontractors use of the Property.
- 2.4. **Hazardous Material/Waste.** User shall not cause or allow any person or entity to discharge any hazardous material, waste, or debris on or around any OCPRC or County Property.
- 2.5. **Indemnification.** User shall indemnify, hold harmless, and defend the County, its Boards, Commissions, officials, and employees from any and all Claims, as defined herein, that are incurred by or asserted against the County or its Boards, Commissions, officials, and employees by any person or entity, which are alleged to have occurred during the use of Property, or which are alleged to have been caused by or found to arise from the acts or omissions of User or its employees, agents, volunteers, subcontractors, invitees, vendors, or any other persons on the Property because of User's use of the Property.
- 2.6. **Definition of Claim.** "Claim" means any loss; complaint; demand for relief or damages; lawsuit; cause of action; proceeding; judgment; penalty; costs or other liability of any kind which is imposed on, incurred by, or asserted against the County or for which the County may become legally or contractually obligated to pay or defend against, whether commenced or threatened, including, but not limited to, reimbursement for reasonable attorney fees, mediation, facilitation, arbitration fees, witness fees, court costs, investigation expenses, litigation expenses, or amounts paid in settlement.
- 2.7. **Reservation of Rights/Limitation of Liability.** In no event shall the County be liable for any consequential, incidental, indirect, special, and punitive or other damages arising out of this Agreement. This Agreement does not, and is not intended to impair, divest, delegate, or contravene any constitutional, statutory, or other legal right, privilege, power, obligation, duty, or immunity of the County.
- 2.8. **Attorney Fees.** The County shall be entitled to reasonable costs and attorney fees from User to enforce any provision of this Agreement.
- 2.9. **Survival.** Section 2 and the duties and obligations contained herein shall survive the expiration or termination of this Agreement.
3. **Force Majeure.** Notwithstanding any other term or condition of this Agreement, neither Party shall be liable for failure to perform duties or obligations contained herein caused by events beyond their reasonable control, including but not limited to: (a) acts of public enemies; (b) natural disasters; (c) terrorism; (d) war; (e) insurrection or riot; (f) strikes, lockouts, work stoppages, or other labor difficulties; (g) closure of OCPRC Property or County Property; or (h) compliance with law ("Force Majeure Event"). Reasonable notice shall be given to the affected Party of a Force Majeure Event. Notwithstanding any other term or condition of this Agreement, if User is not able to use the Property due to a Force Majeure Event, the entire Fee and Security Deposit shall be refunded to User.
4. **Successors and Assigns.** This Agreement shall be binding upon and inure to the benefit of the successors and assigns of the Parties. Notwithstanding the foregoing, User shall not assign or transfer any portion of this Agreement without the prior written approval of the OCPRC Executive Officer.
5. **Waiver.** Waiver of any term or condition under this Agreement must be in writing. No written waiver, in one or more instances, shall be deemed or construed as a continuing waiver of any term or condition of this Agreement. No waiver by either Party shall subsequently affect its right to require strict performance of this Agreement.
6. **Cumulative Remedies.** A Party's exercise of any remedy shall not preclude the exercise of any other remedies, all of which shall be cumulative. A Party shall have the right, in its sole discretion, to determine which remedies are to be exercised and in which order.

7. **Amendments.** This Agreement cannot be amended or modified unless reduced to writing and signed by both Parties.
8. **Severability.** If a court of competent jurisdiction finds a term or condition of this Agreement to be illegal or invalid, then the term or condition shall be deemed severed from this Agreement. All other terms or conditions shall remain in full force and effect. Notwithstanding the above, if User's promise to indemnify, defend, and hold the County harmless is found illegal or invalid, User shall contribute the maximum it is permitted to pay by law toward the payment and satisfaction of any Claims against the County.
9. **Governing Law.** This Agreement shall be governed, interpreted, and enforced by the laws of the State of Michigan.
10. **Counterparts.** This Agreement may be executed in one or more counterparts, including electronic copies or facsimile copies, each of which shall be deemed an original, but all of which shall together constitute one instrument.
11. **Entire Agreement.** This Agreement represents the entire agreement and understanding between the Parties regarding the facilities/property. This Agreement supersedes all other prior oral or written understandings, communications, agreements, or contracts between the Parties regarding the facilities/property.

INSURANCE REQUIREMENTS

A. Insurance Questions.

Yes No

1. Is this reservation/event for a Wedding?
2. Is there expected to be more than 250 people in attendance at the event/facility?
3. Is the reservation being booked by an organized entity/group (not an individual)?
4. Will there be alcohol provided (not sold) at the event?
5. Will there be alcohol SOLD at the event? (Subject to OCPRC approval)

B. Insurance Coverages. If User answers “yes” to any of the above-listed “insurance questions,” then User shall provide and maintain, at its expense, all insurance as set forth below. The insurance shall be written for not less than any minimum coverage herein specified or required by law, whichever is greater.

1. **Commercial General Liability Insurance:** with the following minimum limits:

\$1,000,000 Bodily Injury & Property Damage Each Occurrence Limit

\$1,000,000 Personal & Advertising Injury Limit

\$1,000,000 Products/Completed operations

\$5,000 Medical Expense (Any One Person)

\$2,000,000 General Aggregate Limit

Commercial General Liability Insurance shall contain the following minimum coverages:

- Occurrence Form
- Premises/Operations
- Personal and Advertising Injury
- Independent Contractors
- Broad Form Property Damage
- (Blanket) Broad Form Contractual (including coverage for obligations assumed in this Agreement)

2. Supplemental Coverages – As Needed

- ☐ **Host Liquor Liability Insurance with a limit of \$1,000,000 each occurrence shall be required** when alcohol is served to guest with no charge.
 - ☐ **Liquor Legal Liability Insurance** with a limit of \$1,000,000 each occurrence shall be required when a cash bar is present and/or alcohol is served by a Caterer.
 - ☐ **Other:**
3. **Workers’ Compensation Insurance** with limits statutorily required by any applicable Federal or State Law and Employers Liability insurance with limits of no less than \$500,000 each accident, \$500,000 disease each employee, and \$500,000 disease policy limit. This requirement is waived if there are no User owners or employees.
 - ☐ Fully Insured or State approved self-insurer.
 - ☐ Sole Proprietors must submit a signed Sole Proprietor form.
 - ☐ Exempt entities, Partnerships, LLC, etc., must submit a State of Michigan form WC-337 Certificate of Exemption.

4. **Commercial Automobile Liability Insurance** covering bodily injury or property damage arising out of the use of any owned, hired, or non-owned automobile with a combined single limits of \$1,000,000 each accident. This requirement is waived if there are no company owned, hired or non-owned automobiles utilized in the performance of this Agreement.

C. **General Insurance Provisions.** All certificates of insurance and insurance policies shall contain the following provisions and/or clauses with evidence of same provided to the County of Oakland, 1200 North Telegraph Road, Pontiac, Michigan 48341:

1. All policies of insurance shall be on a primary, non-contributory basis with any other insurance and/or self-insurance carried by the County of Oakland.
2. The insurance company(s) issuing the policy or policies shall have no recourse against the County of Oakland for subrogation, payment of any premiums, deductibles, or assessments under any form of policy.
3. Any and all deductibles in the required insurance policies shall be assumed by and be at the sole risk of the User.
4. All policies must be endorsed to include a written waiver of subrogation in favor of the County of Oakland.
5. All insurance policies must be endorsed to name as Additional Insured: the County of Oakland and its officers, directors, employees, appointees and commissioners.
6. User shall require their contractors or sub-contractors not protected under User's insurance policies, to procure and maintain insurance with coverages, limits, provisions, and/or clauses equal to those required of User in this Agreement.
7. Certificates of insurance must bear evidence of all required endorsements and clauses and must be provided no less than thirty (30) days prior to the event and/or use of the Property; provided however, if the Property is reserved less than thirty (30) days prior to the event and/or use of the Property, the insurance certificate must be provided three (3) business days prior to the event and/or use of the Property.
8. All policies of insurance required in this Agreement shall be issued by companies that are licensed and approved to do business in Michigan and shall have and maintain a minimum A.M. Best rating of A:V or greater.

RULES FOR SPECIFIC FACILITY/PROPERTY

Activity Centers/Lodges/Club Houses

- **Security Deposit:** \$200
- User must place tablecloths on all tables (disposable are acceptable).
- No sound system equipment is provided. User must bring own sound system equipment.
- User shall not use tape, tacks, nails, screws, staples, 3M hooks, poster putty or other adhesive materials on the walls, tables, ceilings, drapes etc.... User shall not use helium balloons, confetti, glitter, streamers, fog-machines or candles (unless enclosed in a hurricane-type holder). The use of any of the above-listed items will result in the forfeit of the security deposit.
- Some locations may have limitations regarding layouts or floor plans. Please check with the staff at the facility.
- Where required, all vehicles entering a park to attend an event/activity must have an OCPRC annual pass or an OCPRC daily vehicle pass ("daily pass").
- Upon request to Park staff, User may choose to pre-pay for the vehicle entry into the Park for the event/activity through a vehicle tally. A vehicle tally allows a User to pay for a specific number of daily passes for its event/activity in advance, so each vehicle attending the event does not have to pay. To use a vehicle tally, User must give Park staff the number of daily passes it wishes to purchase, prior to the event/activity. The number of daily passes should have some connection to the number of persons or vehicles attending the event/activity. User will pre-pay for a certain number of daily passes. Park staff will keep a tally or a record of the number of vehicles entering the Park for User's event/activity. If the prepaid number of daily passes exceeds the number of vehicles actually attending the event/activity, then User shall receive a refund. If User prepaid with a credit card, refunds will be processed the same day. If User prepaid with a check or cash, refunds may take up to 21 days. If the prepaid number of daily passes is less than the number of vehicles actually attending the event/activity, then User shall be charged for the additional daily passes.

Bleachers/Stages

- **Security Deposit:** \$200
- User shall not use tape, tacks, nails, screws, staples, 3M hooks, poster putty or other adhesive materials on any areas of the bleachers or stages.

Buses

- **Security Deposit:** \$50
- No bachelor/bachelorette parties are permitted on the buses.
- Bus hours of operation are 6am-1am.
- User must provide one chaperone per 10 children on any trips, except for school functions.

Ellis Barn

- **Security Deposit:** \$500
- No sound system equipment is provided. User must bring own sound system equipment.
- User must keep coolers, beverage containers, and kegs on a tray or protective container to prevent condensation and spillage.

- User shall not use tape, tacks, nails, screws, staples, 3M hooks, poster putty or other adhesive materials on the walls, tables, ceilings, drapes etc.... User shall not use balloons (of any type), confetti, glitter, streamers, fog-machines, candles, and open flames of any type (including sternos) in the Ellis Barn. User shall not use any items with heating elements in the Ellis Barn, including but not limited to, hair dryers, curling irons, coffee makers, crock pots, slow cookers, popcorn machines, or heaters. The use of any of the above-listed items will result in the forfeit of the security deposit. User may use fans in the Ellis Barn.
- No vehicles are permitted in the Ellis Barn at any time.
- Vehicles may only be on the ramps to the Ellis Barn for drop-off or pick-up of persons or supplies and only for that period of time that is necessary for drop-off and pick-up of person or supplies.
- No smoking within a hundred feet of the Ellis Barn or any of the surrounding buildings.
- No food preparation in the Ellis Barn.
- Music and alcohol service ends at 11 p.m. each night.
- The Ellis Barn and surrounding area must be vacated by midnight each night.
- Only registered campers paid-in-full may relocate to the camping area
- Springfield Oaks is a multi-use park. Other events or programs may be held near the Ellis Barn before or during User's Event. Some events or programs may call for temporary fencing to be installed along the perimeter of the Ellis Barn property.
- Catering and food and beverage set-up shall only be in designated areas.

Horse Barns

- **Security Deposit:** \$0
- No unloading horses by barn; park in horse trailer parking to unload.
- Horses must enter from outside wings of barn only.
- An equine waiver/release must be executed for all persons riding horses.

Pavilions (Not applicable to Shelters located in Waterparks)

- **Security Deposit:** \$0
- A pavilion may or may not be equipped with electric and water service. If electric and water service is provided, there is no guarantee that it will be available on the date and time of use. User is responsible for determining whether the electric service at a pavilion will meet its needs.
- Reservation of a pavilion does not give User exclusive rights to playground equipment and restroom facilities. These areas are open to the public and cannot be reserved. Sports fields, where available, may be reserved in addition to a pavilion for an additional fee.
- No sound system equipment is provided. User must bring own sound system equipment.
- User shall not use glitter or confetti of any kind in a pavilion.
- All vehicles must remain within the designated parking areas for unloading and loading of supplies and persons. No vehicles are to be driven on sidewalks, grass areas, or other non-designated parking areas. OCPRC staff will not provide assistance to transport supplies to the pavilion or provide carts/vehicles to transport supplies to the pavilion. Reasonable accommodations will be made for persons with disabilities. At the discretion of the Park Supervisor, reasonable accommodations may be made for tent and inflatable companies, caterers, or other businesses providing services at an event/activity.
- Where required, all vehicles entering a park to attend an event/activity at a pavilion must have an OCPRC annual pass or an OCPRC daily vehicle pass ("daily pass").

- Upon request to Park staff, User may choose to pre-pay for the vehicle entry into the Park for the event/activity through a vehicle tally. A vehicle tally allows a User to pay for a specific number of daily passes for its event/activity in advance, so each vehicle attending the event does not have to pay. To use a vehicle tally, User must give Park staff the number of daily passes it wishes to purchase, prior to the event/activity. The number of daily passes should have some connection to the number of persons or vehicles attending the event/activity. User will pre-pay for a certain number of daily passes. Park staff will keep a tally or a record of the number of vehicles entering the Park for User's event/activity. If the prepaid number of daily passes exceeds the number of vehicles actually attending the event/activity, then User shall receive a refund. If User prepaid with a credit card, refunds will be processed the same day. If User prepaid with a check or cash, refunds may take up to 21 days. If the prepaid number of daily passes is less than the number of vehicles actually attending the event/activity, then User shall be charged for the additional daily passes.

Waterpark Shelters

- **Security Deposit:** \$0
- All guests must pay regular admission rates to enter the waterpark or utilize the shelter. Admission sales stop one hour before close.
- A shelter reservation does not guarantee waterpark admission. Admission is subject to capacity.
- Waterpark admission is non-refundable and non-transferable.
- Advance tickets for waterpark admission for the date of the reservation can be purchased up to 24 hours in advance.
- The shelter reservation time (start time and end time) is listed on the reservation receipt. A representative of User shall be present at the waterpark and shelter at the start time. Signs will be posted in the shelter to signify that the shelter is reserved.
- If there is not a representative of User present at the waterpark and shelter 2 hours from the start time, the reservation shall be deemed cancelled and the reserved signs shall be taken down. After this time, the general public will have the ability to use the shelter. No refund will be issued to User in this situation.
- No rain checks or refunds are provided if the waterpark closes early due to inclement weather after opening on the day of User's reservation. Please visit "oaklandcountyparks.com" for complete inclement weather, mechanical failure and low attendance procedures.
- If a waterpark does not open on the day of your reservation, User's shelter payment will be refunded in full.
- No additional equipment can be brought into the waterpark for use in shelter, including but not limited to, catering equipment, additional tables, tents, bouncer houses/inflatables, or other equipment.
- User is not permitted to drive to the shelter to drop off supplies. OCPRC staff will not provide assistance to transport supplies to the shelter or provide carts/vehicles to transport supplies to the shelter.
- Coin operated lockers are available on site both inside and outside the locker rooms. Two locker sizes are available: Regular and Family size. Regular lockers are \$1.00 each time the locker is locked. Family size lockers are \$1.50 each time the locker is locked. There is a \$25 replacement fee for a lost locker key.



To: Honorable President George; Village Council Members

From: Kristin Rutkowski, Village Clerk/Assistant Village Manager

Subject: First Announcement of Zoning Board of Appeals Vacancy

Date: July 15, 2021

There is a vacancy on the Zoning Board of Appeals for a partial term ending June 30, 2022. The vacancy was created when the Village Council appointed member Ahmad Jawad to the Planning Commission at their June 15, 2021 meeting, which resulted in his subsequent resignation from the ZBA.

All interested and eligible residents of Beverly Hills are encouraged to apply to become a member of the ZBA. Applications are available on the Village website or by emailing the Village Clerk at krutkowski@villagebeverlyhills.com. Applications may be submitted via email, regular mail, or using the drop box located outside of the Village office (18500 W. 13 Mile Road, Beverly Hills, MI 48025).

Applications are due Monday, August 9, 2021.

The ZBA meets the second Monday of the month at 7:30 p.m., as necessary.

This constitutes the first announcement of a vacancy on the Zoning Board of Appeals.

Memorandum

To: Honorable President George; Village Council
From: Chris D. Wilson, Village Manager
CC: Sheila McCarthy, Finance Director; Peggy Linkswiler, Treasurer
Date: 7/16/2021
Re: MERS Actuarial Valuation Report 12/31/20

The Village is in receipt of our most recent actuarial valuation report from the Municipal Employees' Retirement System of Michigan (MERS). This report is produced annually to analyze the Village's demographic data, investment performance and other factors to produce a contribution rate for pension costs for the coming year.

The Village's funding ratio as of 12/31/20 is 78%. This is a decrease from the funding ratio of 80% as of 12/31/19. The Village's market rate of return for 2020 was 12.70%. With the use of 5-year asset smoothing the actuarial rate of return for 2020 was 8.17%. Our actuarial value of assets as of December 31, 2020 is 97%. MERS is currently using an actuarial assumption for the annual rate of return of 7.35%.

For the current fiscal year (FY22) the Village's monthly defined benefit contributions will be \$65,579; or \$786,948 annually. Village Administration budgeted \$760,056 for these costs for FY22 and \$775,000 for FY 23.

Page 12 of the report shows the anticipated contribution levels over the next 20 years with different measures based upon different rates of return. As this graph indicates the funding requirement based upon the current rate of 7.35% will remain relatively steady for the next 10 years before falling dramatically by roughly 90% per year and eventually to \$0 by 2035. This is a result of our plan being closed to new hires as of 2013. Closed plans amortize all unfunded accrued liability (UAL) over a ten-year period. Functionally, this means that at current contribution rates and by keeping the plan closed, all Village pension funding obligations can be achieved by FYE June 30, 2031.

Recommended Motion – *be it so moved that the Village Council receive and file the Municipal Employees Retirement System Annual Actuarial Valuation as of December 31, 2020.*



1134 Municipal Way
Lansing, MI 48917
(800) 767-6377

Peggy Linkswiler
Village of Beverly Hills
18500 W 13 Mile Rd
Beverly Hills, MI 48025

**Statement of Fiduciary Net Position
For the Year Ending 12/31/2020**

Customer Number: 632101

Reserve for Employee Contributions

| Bargaining Unit | Balance as of 12/31/2019 | Invoiced & Other Contributions | Transfers | EE Refunds | Interest on EE Balance | Balance as of 12/31/2020 |
|------------------------|-------------------------------------|---|------------------|-------------------|-----------------------------------|-------------------------------------|
| 63210102 | \$856,470.23 | \$362,295.73 | \$0.00 | \$0.00 | \$856.47 | \$1,219,622.43 |
| 63210110 | \$188.47 | \$0.00 | \$0.00 | \$0.00 | \$0.19 | \$188.66 |
| Total | \$856,658.70 | \$362,295.73 | \$0.00 | \$0.00 | \$856.66 | \$1,219,811.09 |

Reserve for Employer Contributions and Benefit Payments

| Bargaining Unit | Balance as of 12/31/2019 | Invoiced & Other Contributions | Transfers & Fees | Benefits Paid | Net Investment Income | Admin Expenses | Balance as of 12/31/2020 |
|------------------------|-------------------------------------|---|-----------------------------|-------------------------|----------------------------------|-----------------------|-------------------------------------|
| 63210102 | \$9,251,072.47 | \$308,088.00 | \$0.00 | (\$422,835.36) | \$1,361,827.51 | (\$21,047.53) | \$10,477,105.09 |
| 63210110 | \$3,669,844.39 | \$56,728.38 | \$0.00 | (\$273,555.67) | \$448,268.89 | (\$7,257.71) | \$3,894,028.28 |
| 63210120 | \$3,633,487.32 | \$83,886.00 | \$0.00 | (\$383,178.96) | \$427,042.96 | (\$7,067.38) | \$3,754,169.94 |
| 63210121 | \$4,019,352.25 | \$81,540.00 | \$0.00 | (\$636,520.80) | \$436,341.88 | (\$7,580.24) | \$3,893,133.09 |
| Total | \$20,573,756.43 | \$530,242.38 | \$0.00 | (\$1,716,090.79) | \$2,673,481.24 | (\$42,952.86) | \$22,018,436.40 |

Combined Reserves

| | Balance as of 12/31/2019 | Invoiced & Other Contributions | Transfers | Benefits Paid | Net Investment Income | Admin Expenses | Balance as of 12/31/2020 |
|--------------|-------------------------------------|---|------------------|-------------------------|----------------------------------|-----------------------|-------------------------------------|
| Total | \$21,430,415.13 | \$892,538.11 | \$0.00 | (\$1,716,090.79) | \$2,674,337.90 | (\$42,952.86) | \$23,238,247.49 |

Outstanding Accounts Receivable at 12/31/2020: \$53,802.66



Municipal Employees' Retirement System of Michigan

Annual Actuarial Valuation Report
December 31, 2020 - Beverly Hills, Vlg of (6321)





Spring, 2021

Beverly Hills, Vlg of

In care of:
Municipal Employees' Retirement System of Michigan
1134 Municipal Way
Lansing, Michigan 48917

This report presents the results of the Annual Actuarial Valuation, prepared for Beverly Hills, Vlg of (6321) as of December 31, 2020. The report includes the determination of liabilities and contribution rates resulting from the participation in the Municipal Employees' Retirement System of Michigan ("MERS"). This report contains the minimum actuarially determined contribution requirement, in alignment with the MERS Plan Document, Actuarial Policy, the Michigan Constitution, and governing statutes. Beverly Hills, Vlg of is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees.

The purposes of this valuation are to:

- Measure funding progress as of December 31, 2020,
- Establish contribution requirements for the fiscal year beginning July 1, 2022,
- Provide information regarding the identification and assessment of risk,
- Provide actuarial information in connection with applicable Governmental Accounting Standards Board (GASB) statements, and
- Provide information to assist the local unit of government with state reporting requirements.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data and other information through December 31, 2020. The valuation was based upon information furnished by MERS concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal reasonability and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by MERS.

The Municipal Employees' Retirement Act, PA 427 of 1984 and the MERS' Plan Document Article VI sec. 71 (1)(d), provides the MERS Board with the authority to set actuarial assumptions and methods after consultation with the actuary. As the fiduciary of the plan, MERS Retirement Board sets certain assumptions for funding and GASB purposes. These assumptions are checked regularly through a comprehensive study, called an Experience Study. Studies were completed in 2018 and 2020, and are the basis of the economic and demographic assumptions and methods currently in place. Updated economic assumptions were adopted by the MERS Retirement Board at the February 28, 2019 board meeting and were effective with the December 31, 2019 annual actuarial valuation. **At the February 27, 2020 board meeting, the MERS Retirement Board adopted demographic assumptions effective with the December 31, 2020 annual actuarial valuation, which will impact contributions beginning in 2022.**

The Michigan Department of Treasury provides required assumptions to be used for purposes of Public Act 202 reporting. These assumptions are for reporting purposes only and do not impact required contributions. Please refer to the State Reporting page found at the end of this report for information for this filing.

For a full list of all the assumptions used, please refer to the division-specific assumptions described in table(s) in this report, and to the Appendix on the MERS website at:

<http://www.mersofmich.com/Portals/0/Assets/Resources/AAV-Appendix/MERS-2020AnnualActuarialValuation-Appendix.pdf>

The actuarial assumptions used for this valuation, including the assumed rate of investment return, are reasonable for purposes of the measurement.

This report reflects the impact of COVID-19 experience through December 31, 2020. It does not reflect the ongoing impact of COVID-19, which is likely to influence demographic and economic experience, at least in the short-term. We will continue to monitor these developments and their impact on the MERS Defined Benefit and Hybrid plans. Actual future experience will be reflected in each subsequent annual valuation, as experience emerges.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of Beverly Hills, Vlg of as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and with applicable statutes.

David T. Kausch, Rebecca L. Stouffer, and Mark Buis are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor. GRS maintains independent consulting agreements with certain local units of government for services unrelated to the actuarial consulting services provided in this report.

The Retirement Board of the Municipal Employees' Retirement System of Michigan confirms that the System provides for payment of the required employer contribution as described in Section 20m of Act No. 314 of 1965 (MCL 38.1140m).



This information is purely actuarial in nature. It is not intended to serve as a substitute for legal, accounting or investment advice.

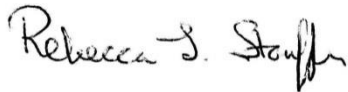
This report was prepared at the request of the MERS Retirement Board and may be provided only in its entirety by the municipality to other interested parties (MERS customarily provides the full report on request to associated third parties such as the auditor for the municipality). GRS is not responsible for the consequences of any unauthorized use. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

If you have reason to believe that the plan provisions are incorrectly described, that important plan provisions relevant to this valuation are not described, that conditions have changed since the calculations were made, that the information provided in this report is inaccurate or is in anyway incomplete, or if you need further information in order to make an informed decision on the subject matter in this report, please contact your Regional Manager at 1.800.767.MERS (6377).

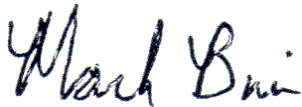
Sincerely,



David T. Kausch, FSA, FCA, EA, MAAA



Rebecca L. Stouffer, ASA, FCA, MAAA



Mark Buis, FSA, FCA, EA, MAAA



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Executive Summary

Funded Ratio

The funded ratio of a plan is the percentage of the dollar value of the actuarial accrued liability that is covered by the actuarial value of assets. While funding ratio may be a useful plan measurement, understanding a plan's funding trend may be more important than a particular point in time. Refer to Table 7 to find a history of this information.

| | 12/31/2020 | 12/31/2019 |
|---------------|------------|------------|
| Funded Ratio* | 78% | 80% |

* Reflects assets from Surplus divisions, if any.

Throughout this report are references to valuation results generated prior to the 2018 valuation date. Results prior to 2018 were received directly from the prior actuary or extracted from the previous valuation system by MERS's technology service provider.

Required Employer Contributions

Your required employer contributions are shown in the following table. Employee contributions, if any, are in addition to the employer contributions.

Effective for the December 31, 2020 valuation, the MERS Retirement Board has adopted updated demographic assumptions. Changes to these assumptions are effective for contributions beginning in 2022. Effective with the 2019 valuation, the MERS Retirement Board adopted updated economic assumptions. The combined impact of these assumption changes may be phased in. This valuation reflects the second year of phase-in for the economic assumption update and the first year of phase-in for the demographic assumption update. The remaining combined phase-in period is four years for all assumption changes.

By default, MERS will invoice you based on the amount in the “No Phase-in” columns. This amount will be considered the minimum required contribution unless you request to be billed the “Phase-in” rates. If you wish to be billed using the phased-in rates, please contact MERS, at which point the alternate minimum required contribution will be the amount in the “Phase-in” columns.

| | Percentage of Payroll | | | | Monthly \$ Based on Projected Payroll | | | |
|---|-----------------------|--------------|--------------|--------------|---------------------------------------|--------------|--------------|--------------|
| | Phase-in | No Phase-in | Phase-in | No Phase-in | Phase-in | No Phase-in | Phase-in | No Phase-in |
| Valuation Date: | 12/31/2020 | 12/31/2020 | 12/31/2019 | 12/31/2019 | 12/31/2020 | 12/31/2020 | 12/31/2019 | 12/31/2019 |
| Fiscal Year Beginning: | July 1, 2022 | July 1, 2022 | July 1, 2021 | July 1, 2021 | July 1, 2022 | July 1, 2022 | July 1, 2021 | July 1, 2021 |
| Division | | | | | | | | |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | - | - | - | - | \$ 33,537 | \$ 40,248 | \$ 34,586 | \$ 38,387 |
| 10 - General Nonunion & AFSCME | - | - | - | - | 7,186 | 8,950 | 5,802 | 6,528 |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | - | - | - | - | 10,084 | 12,415 | 9,979 | 11,419 |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | - | - | - | - | 14,772 | 16,539 | 12,971 | 14,159 |
| Total Municipality - Estimated Monthly Contribution | | | | | \$ 65,579 | \$ 78,152 | \$ 63,338 | \$ 70,493 |
| Total Municipality - Estimated Annual Contribution | | | | | \$ 786,948 | \$ 937,824 | \$ 760,056 | \$ 845,916 |

Employee contribution rates:

| Valuation Date: | Employee Contribution Rate | |
|------------------------------------|----------------------------|------------|
| | 12/31/2020 | 12/31/2019 |
| Division | | |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | 5.00% | 5.00% |
| 10 - General Nonunion & AFSCME | 0.00% | 0.00% |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | 0.00% | 0.00% |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | 0.00% | 0.00% |

The employer may contribute more than the minimum required contributions, as these additional contributions will earn investment income and may result in lower future contribution requirements. Employers making contributions in excess of the minimum requirements may elect to apply the excess contribution immediately to a particular division, or segregate the excess into one or more of what MERS calls “Surplus” divisions. An election in the first case would immediately reduce any unfunded accrued liability and lower the amortization payments throughout the remaining amortization period. An election to set up Surplus divisions would not immediately lower future contributions, however the assets from the Surplus division could be transferred to an unfunded division in the future to reduce the unfunded liability in future years, or to be used to pay all or a portion of the minimum required contribution in a future year. For purposes of this report, the assets in any Surplus division have been included in the municipality’s total assets, unfunded accrued liability and funded status, however, these assets are not used in calculating the minimum required contribution.

MERS strongly encourages employers to contribute more than the minimum contribution shown above.



Assuming that experience of the plan meets actuarial assumptions:

- To accelerate to a 100% funding ratio in 10 years, estimated monthly employer contributions for the fiscal year beginning in 2022 for the entire employer would be \$79,381, instead of \$78,152.

How and Why Do These Numbers Change?

In a defined benefit plan, contributions vary from one annual actuarial valuation to the next as a result of the following:

- Changes in benefit provisions (see Table 2),
- Changes in actuarial assumptions and methods (see the Appendix), and
- Experience of the plan (investment experience and demographic experience); this is the difference between actual experience of the plan and the actuarial assumptions.

These impacts are reflected in various tables in the report. For more information, please contact your Regional Manager.

Comments on Investment Rate of Return Assumption

A defined benefit plan is funded by employer contributions, participant contributions, and investment earnings. Investment earnings have historically provided a significant portion of the funding. The larger the share of benefits being provided from investment returns, the smaller the required contributions, and vice versa. Determining the contributions required to prefund the promised retirement benefits requires an assumption of what investment earnings are expected to add to the fund over a long period of time. This is called the **Investment Return Assumption**.

The MERS Investment Return Assumption is **7.35%** per year. This, along with all of our other actuarial assumptions, is reviewed at least every five years in an Experience Study that compares the assumptions used against actual experience and recommends adjustments if necessary. If your municipality would like to explore contributions at lower assumed investment return assumptions, please review the “what if” projection scenarios later in this report.

Assumption Change in 2020

A 5-year experience study analyzing historical experience from 2013 through 2018 was completed in February 2020. In addition to changes to the economic assumptions which took effect with the fiscal year 2021 contribution rates, the experience study recommended updated demographic assumptions, including adjustments to the following actuarial assumptions: mortality, retirement, disability, and termination rates. Changes to the demographic assumptions resulting from the experience study have been approved by the MERS Retirement Board and are effective beginning with the December 31, 2020 actuarial valuation, first impacting 2022 contributions. A complete description of the assumptions may be found in the Appendix to the valuation.

Comments on Asset Smoothing

To avoid dramatic spikes and dips in annual contribution requirements due to short term fluctuations in asset markets, MERS applies a technique called **asset smoothing**. This spreads out each year’s investment gains or losses over the prior year and the following four years. This smoothing method is used to determine your



actuarial value of assets (valuation assets), which is then used to determine both your funded ratio and your required contributions. **The (smoothed) actuarial rate of return for 2020 was 8.17%, while the actual market rate of return was 12.70%.** To see historical details of the market rate of return, compared to the smoothed actuarial rate of return, refer to this report's Appendix, or view the "[How Smoothing Works](#)" video on the [Defined Benefit resource page](#) of the MERS website.

As of December 31, 2020, the actuarial value of assets is 97% of market value due to asset smoothing. This means that the rate of return on the actuarial value of assets should exceed the actuarial assumption in the next few years provided that the annual market returns exceed the 7.35% investment return assumption. When all assumptions are met, contribution rates are expected to stay approximately level as a percent of payroll (dollar amounts are expected to increase with wage inflation of 3.0% each year).

If the December 31, 2020 valuation results were based on market value instead of actuarial value:

- The funded percent of your entire municipality would be 80% (instead of 78%); and
- Your total employer contribution requirement for the fiscal year starting July 1, 2022 would be \$851,976 (instead of \$937,824).

Alternate Scenarios to Estimate the Potential Volatility of Results ("What If Scenarios")

The calculations in this report are based on assumptions about long-term economic and demographic behavior. These assumptions will never materialize in a given year, except by coincidence. Therefore, the results will vary from one year to the next. The volatility of the results depends upon the characteristics of the plan. For example:

- Open divisions that have substantial assets compared to their active employee payroll will have more volatile employer contribution rates due to investment return fluctuations.
- Open divisions that have substantial accrued liability compared to their active employee payroll will have more volatile employer contribution rates due to demographic experience fluctuations.
- Small divisions will have more volatile contribution patterns than larger divisions because statistical fluctuations are relatively larger among small populations.
- Shorter amortization periods result in more volatile contribution patterns.

Many assumptions are important in determining the required employer contributions. In the following table, we show the impact of varying the Investment Return assumption. Lower investment returns would result in higher required employer contributions, and vice-versa. The three economic scenarios below provide a quantitative risk assessment for the impact of investment returns on the plan's future financial condition for funding purposes.

The relative impact of the economic scenarios below will vary from year to year, as the participant demographics change. The impact of each scenario should be analyzed for a given year, not from year to year. The results in the table are based on the December 31, 2020 valuation, and are for the municipality in total, not by division. These results do not reflect a phase-in of the impact of the new actuarial assumptions.

It is important to note that calculations in this report are mathematical estimates based upon assumptions regarding future events, which may or may not materialize. Actuarial calculations can and do vary from one valuation to the next, sometimes significantly depending on the group's size. Projections are not predictions. Future valuations will be based on actual future experience.



| 12/31/2020 Valuation Results | Lower Future Annual Returns | Lower Future Annual Returns | Valuation Assumptions |
|--|--------------------------------|--------------------------------|--------------------------|
| Investment Return Assumption | 5.35% | 6.35% | 7.35% |
| Accrued Liability | \$ 36,533,178 | \$ 32,417,213 | \$ 29,024,647 |
| Valuation Assets ¹ | \$ 22,595,872 | \$ 22,595,872 | \$ 22,595,872 |
| Unfunded Accrued Liability | \$ 13,937,306 | \$ 9,821,341 | \$ 6,428,775 |
| Funded Ratio | 62% | 70% | 78% |
| Monthly Normal Cost | \$ 26,024 | \$ 19,514 | \$ 14,631 |
| Monthly Amortization Payment | \$ 130,607 | \$ 95,513 | \$ 63,521 |
| Total Employer Contribution² | \$ 156,631 | \$ 115,027 | \$ 78,152 |

¹ The Valuation Assets include assets from Surplus divisions, if any.

² If assets exceed accrued liabilities for a division, the division may have an overfunding credit to reduce the division's employer contribution requirement. If the overfunding credit is larger than the normal cost, the division's full credit is included in the municipality's amortization payment above but the division's total contribution requirement is zero. This can cause the displayed normal cost and amortization payment to not add up to the displayed total employer contribution.

Projection Scenarios

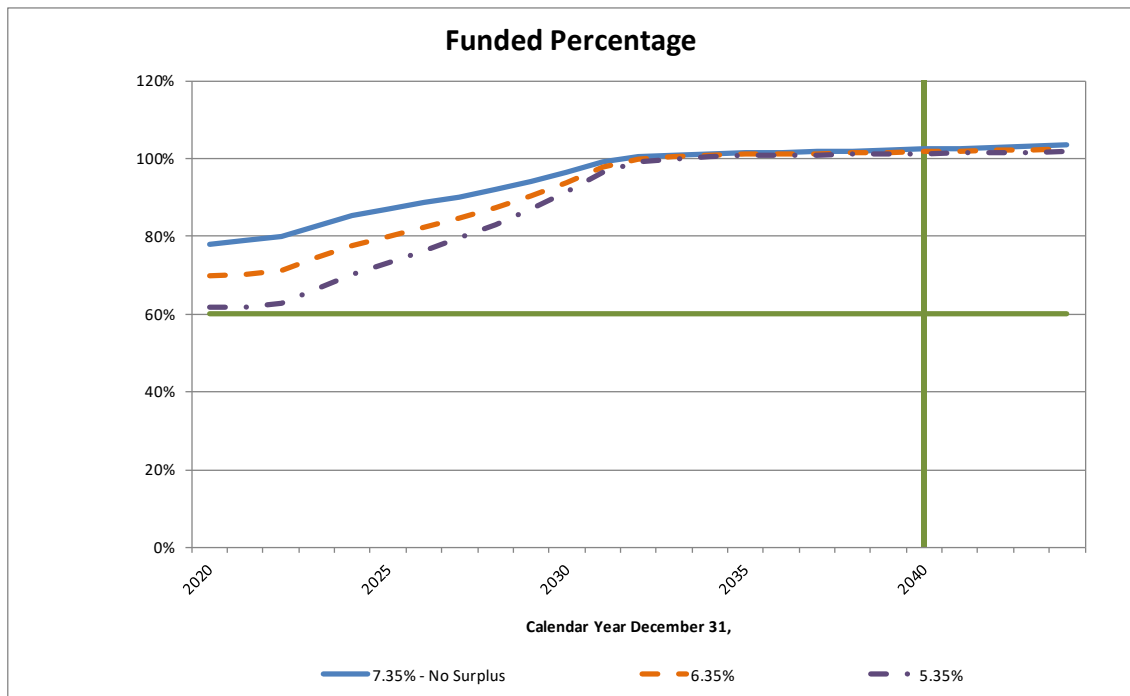
The next two pages show projections of the plan's funded ratio and computed employer contributions under the actuarial assumptions used in the valuation and alternate economic assumption scenarios. All three projections take into account the past investment experience that will continue to affect the actuarial rate of return in the short term.

The 7.35% scenario provides an estimate of computed employer contributions based on current actuarial assumptions, and a projected 7.35% market return. The other two scenarios may be useful if the municipality chooses to budget more conservatively, and make contributions in addition to the minimum requirements. The 6.35% and 5.35% projection scenarios provide an indication of the potential required employer contribution if these assumptions were met over the long-term.

| Valuation Year Ending 12/31 | Fiscal Year Beginning 7/1 | Actuarial Accrued Liability | Valuation Assets ² | Funded Percentage | Estimated Annual Employer Contribution |
|--|---------------------------------|--------------------------------|-------------------------------|----------------------|--|
| 7.35%¹ - NO PHASE-IN | | | | | |
| 2020 | 2022 | \$ 29,024,647 | \$ 22,595,872 | 78% | \$ 937,824 |
| 2021 | 2023 | \$ 29,500,000 | \$ 23,300,000 | 79% | \$ 926,000 |
| 2022 | 2024 | \$ 30,000,000 | \$ 24,000,000 | 80% | \$ 935,000 |
| 2023 | 2025 | \$ 30,300,000 | \$ 25,100,000 | 83% | \$ 881,000 |
| 2024 | 2026 | \$ 30,600,000 | \$ 26,100,000 | 85% | \$ 841,000 |
| 2025 | 2027 | \$ 30,800,000 | \$ 26,800,000 | 87% | \$ 844,000 |
| 6.35%¹ - NO PHASE-IN | | | | | |
| 2020 | 2022 | \$ 32,417,213 | \$ 22,595,872 | 70% | \$ 1,380,324 |
| 2021 | 2023 | \$ 32,900,000 | \$ 23,100,000 | 70% | \$ 1,380,000 |
| 2022 | 2024 | \$ 33,400,000 | \$ 23,800,000 | 71% | \$ 1,400,000 |
| 2023 | 2025 | \$ 33,700,000 | \$ 25,100,000 | 74% | \$ 1,360,000 |
| 2024 | 2026 | \$ 34,000,000 | \$ 26,300,000 | 77% | \$ 1,330,000 |
| 2025 | 2027 | \$ 34,100,000 | \$ 27,200,000 | 80% | \$ 1,340,000 |
| 5.35%¹ - NO PHASE-IN | | | | | |
| 2020 | 2022 | \$ 36,533,178 | \$ 22,595,872 | 62% | \$ 1,879,572 |
| 2021 | 2023 | \$ 37,000,000 | \$ 22,900,000 | 62% | \$ 1,900,000 |
| 2022 | 2024 | \$ 37,500,000 | \$ 23,500,000 | 63% | \$ 1,930,000 |
| 2023 | 2025 | \$ 37,800,000 | \$ 25,100,000 | 67% | \$ 1,900,000 |
| 2024 | 2026 | \$ 38,000,000 | \$ 26,600,000 | 70% | \$ 1,870,000 |
| 2025 | 2027 | \$ 38,100,000 | \$ 27,900,000 | 73% | \$ 1,890,000 |

¹ Represents both the interest rate for discounting liabilities and the future investment return assumption on the Market Value of assets.

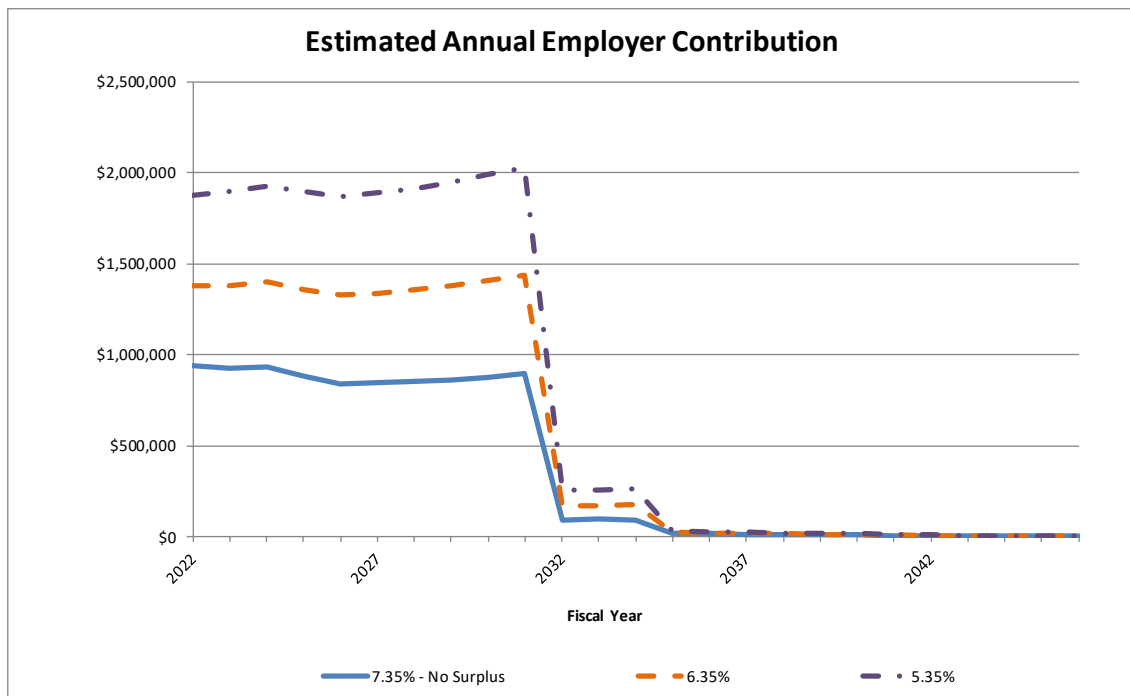
² Valuation Assets do not include assets from Surplus divisions, if any.



Notes:

All projected funded percentages are shown with no phase-in.

The green indicator lines have been added at 60% funded and 20 years following the valuation date for PA 202 purposes.



Notes:

All projected contributions are shown with no phase-in.

Table 1: Employer Contribution Details for the Fiscal Year Beginning July 1, 2022

| Division | Total Normal Cost | Employee Contribut. Rate | Employer Contributions ¹ | | | Computed Employer Contribut. With Phase-In | Blended ER Rate No Phase-In ⁵ | Blended ER Rate With Phase-In ⁵ | Employee Contribut. Conversion Factor ² |
|---|-------------------|--------------------------|-------------------------------------|--|--|--|--|--|--|
| | | | Employer Normal Cost ⁶ | Payment of the Unfunded Accrued Liability ⁴ | Computed Employer Contribut. No Phase-In | | | | |
| Percentage of Payroll | | | | | | | | | |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | 20.43% | 5.00% | - | - | - | - | - | - | - |
| 10 - General Nonunion & AFSCME | 11.30% | 0.00% | - | - | - | - | - | - | - |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | 0.00% | 0.00% | - | - | - | - | - | - | - |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | 0.00% | 0.00% | - | - | - | - | - | - | - |
| Estimated Monthly Contribution³ | | | | | | | | | |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | | | \$ 11,087 | \$ 29,161 | \$ 40,248 | \$ 33,537 | | | |
| 10 - General Nonunion & AFSCME | | | 3,544 | 5,406 | 8,950 | 7,186 | | | |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | | | 0 | 12,415 | 12,415 | 10,084 | | | |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | | | 0 | 16,539 | 16,539 | 14,772 | | | |
| Total Municipality | | | \$ 14,631 | \$ 63,521 | \$ 78,152 | \$ 65,579 | | | |
| Estimated Annual Contribution³ | | | \$ 175,572 | \$ 762,252 | \$ 937,824 | \$ 786,948 | | | |

¹ The above employer contribution requirements are in addition to the employee contributions, if any.

² If employee contributions are increased/decreased by 1.00% of pay, the employer contribution requirement will decrease/increase by the Employee Contribution Conversion Factor. The conversion factor is usually under 1%, because employee contributions may be refunded at termination of employment, and not used to fund retirement pensions. Employer contributions will all be used to fund pensions.

³ For divisions that are open to new hires, estimated contributions are based on projected fiscal year payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts. For divisions that will have no new hires (i.e., closed divisions), invoices will be based on the above dollar amounts which are based on projected fiscal year payroll. See description of Open Divisions and Closed Divisions in the Appendix.

⁴ Note that if the overfunding credit is larger than the normal cost, the full credit is shown above but the total contribution requirement is zero. This will cause the displayed normal cost and unfunded accrued liability contributions to not add across.

⁵ For linked divisions, the employer will be invoiced the Computed Employer Contribution No Phase-in rate shown above for each linked division (a contribution rate for the open division; a contribution dollar for the closed-but-linked division), unless the employer elects to contribute the Blended Employer Contribution rate shown above, by contacting MERS at 800-767-MERS (6377).

⁶ For divisions with a negative employer normal cost, employee contributions cover the normal cost and a portion of the payment of any unfunded accrued liability.

Please see the Comments on Asset Smoothing in the Executive Summary of this report.



Table 2: Benefit Provisions

02 - Cmmd Off & Pub Sfty & Ret w/1: Closed to new hires

| | 2020 Valuation | 2019 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 55 | 55 |
| Vesting: | 10 years | 10 years |
| Early Retirement (Unreduced): | 25 & Out | 25 & Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 2 years | 2 years |
| COLA for Future Retirees: | 1.00% (Compound) | 1.00% (Compound) |
| Employee Contributions: | 5.00% | 5.00% |
| D-2: | D2 (25%) | D2 (25%) |
| DC Plan for New Hires: | 6/1/2013 | 6/1/2013 |
| | DROP+ (4%) | DROP+ (4%) |
| Act 88: | Yes (Adopted 12/19/2017) | Yes (Adopted 12/19/2017) |

10 - General Nonunion & AFSCME: Closed to new hires

| | 2020 Valuation | 2019 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 10 years | 10 years |
| Early Retirement (Unreduced): | - | - |
| Early Retirement (Reduced): | 50/25 | 50/25 |
| | 55/15 | 55/15 |
| Final Average Compensation: | 3 years | 3 years |
| Employee Contributions: | 0.00% | 0.00% |
| DC Plan for New Hires: | 7/1/2015 | 7/1/2015 |
| Act 88: | Yes (Adopted 12/19/2017) | Yes (Adopted 12/19/2017) |

20 - Cmmd Off & Pub Sfty Ret w/2%: Closed to new hires

| | 2020 Valuation | 2019 Valuation |
|-------------------------------|-------------------------------------|-------------------------------------|
| Benefit Multiplier: | Old Plan Benefits | Old Plan Benefits |
| Normal Retirement Age: | - | - |
| Vesting: | - | - |
| Early Retirement (Unreduced): | - | - |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | - | - |
| COLA for Current Retirees: | 2.00% (Compound) payable Years 6-15 | 2.00% (Compound) payable Years 6-15 |
| Employee Contributions: | - | - |
| Act 88: | Yes (Adopted 12/19/2017) | Yes (Adopted 12/19/2017) |

21 - Cmmd Off & Pub Sfty Def&Ret n: Closed to new hires

| | 2020 Valuation | 2019 Valuation |
|-------------------------------|--------------------------|--------------------------|
| Benefit Multiplier: | Old Plan Benefits | Old Plan Benefits |
| Normal Retirement Age: | - | - |
| Vesting: | - | - |
| Early Retirement (Unreduced): | - | - |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | - | - |
| Employee Contributions: | - | - |
| Act 88: | Yes (Adopted 12/19/2017) | Yes (Adopted 12/19/2017) |

Table 3: Participant Summary

| Division | 2020 Valuation | | 2019 Valuation | | 2020 Valuation | | |
|------------------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|--------------------------------------|--|
| | Number | Annual Payroll ¹ | Number | Annual Payroll ¹ | Average Age | Average Benefit Service ² | Average Eligibility Service ² |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | | | | | | | |
| Active Employees | 11 | \$ 1,035,105 | 11 | \$ 1,028,178 | 47.9 | 20.8 | 21.5 |
| Vested Former Employees | 2 | 68,460 | 2 | 68,460 | 44.8 | 15.7 | 15.7 |
| Retirees and Beneficiaries | 7 | 427,059 | 7 | 422,835 | 52.9 | | |
| Pending Refunds | 0 | | 0 | | | | |
| 10 - General Nonunion & AFSCME | | | | | | | |
| Active Employees | 5 | \$ 406,614 | 6 | \$ 437,079 | 48.9 | 13.5 | 15.2 |
| Vested Former Employees | 8 | 76,958 | 8 | 114,072 | 48.0 | 7.3 | 16.1 |
| Retirees and Beneficiaries | 20 | 312,674 | 18 | 254,735 | 73.8 | | |
| Pending Refunds | 1 | | 1 | | | | |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | | | | | | | |
| Active Employees | 0 | \$ 0 | 0 | \$ 0 | 0.0 | 0.0 | 0.0 |
| Vested Former Employees | 1 | 22,742 | 1 | 22,742 | 53.8 | 0.0 | 14.0 |
| Retirees and Beneficiaries | 10 | 390,843 | 10 | 383,179 | 61.3 | | |
| Pending Refunds | 0 | | 0 | | | | |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | | | | | | | |
| Active Employees | 0 | \$ 0 | 0 | \$ 0 | 0.0 | 0.0 | 0.0 |
| Vested Former Employees | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| Retirees and Beneficiaries | 21 | 637,861 | 21 | 636,521 | 77.2 | | |
| Pending Refunds | 0 | | 0 | | | | |
| Total Municipality | | | | | | | |
| Active Employees | 16 | \$ 1,441,719 | 17 | \$ 1,465,257 | 48.2 | 18.5 | 19.5 |
| Vested Former Employees | 11 | 168,160 | 11 | 205,274 | 47.9 | 8.2 | 15.8 |
| Retirees and Beneficiaries | 58 | 1,768,437 | 56 | 1,697,271 | 70.4 | | |
| Pending Refunds | <u>1</u> | | <u>1</u> | | | | |
| Total Participants | 86 | | 85 | | | | |

¹ Annual payroll for active employees; annual deferred benefits payable for vested former employees; annual benefits being paid for retirees and beneficiaries.

² Descriptions can be found under Miscellaneous and Technical Assumptions in the Appendix.

Table 4: Reported Assets (Market Value)

| Division | 2020 Valuation | | 2019 Valuation | |
|---------------------------------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------|
| | Employer and Retiree ¹ | Employee ² | Employer and Retiree ¹ | Employee ² |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | \$ 10,477,105 | \$ 1,219,622 | \$ 9,251,072 | \$ 856,470 |
| 10 - General Nonunion & AFSCME | 3,894,028 | 189 | 3,669,844 | 188 |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | 3,754,170 | 0 | 3,633,487 | 0 |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | 3,893,133 | 0 | 4,019,352 | 0 |
| Municipality Total³ | \$ 22,018,436 | \$ 1,219,811 | \$ 20,573,756 | \$ 856,659 |
| Combined Assets³ | \$23,238,247 | | \$21,430,415 | |

¹ Reserve for Employer Contributions and Benefit Payments.

² Reserve for Employee Contributions.

³ Totals may not add due to rounding.

The December 31, 2020 valuation assets (actuarial value of assets) are equal to 0.972357 times the reported market value of assets (compared to 1.013179 as of December 31, 2019). Refer to the Appendix for a description of the valuation asset derivation and a detailed calculation of valuation assets.

Table 5: Flow of Valuation Assets

| Year Ended 12/31 | Employer Contributions | | Employee Contributions | Investment Income (Valuation Assets) | Benefit Payments | Employee Contribution Refunds | Net Transfers | Valuation Asset Balance |
|------------------------|------------------------|------------|---------------------------|---|---------------------|-------------------------------------|------------------|-------------------------------|
| | Required | Additional | | | | | | |
| 2010 | \$ 78,319 | | \$ 0 | \$ 128,776 | \$ (200,823) | \$ 0 | \$ 0 | \$ 2,746,799 |
| 2011 | 89,247 | \$ 0 | 0 | 129,283 | (204,366) | 0 | 0 | 2,760,963 |
| 2012 | 115,581 | 0 | 0 | 116,980 | (222,246) | 0 | 0 | 2,771,278 |
| 2013 | 16,105,069 | 0 | 41,566 | 2,602,962 | (587,115) | 0 | 208,875 | 21,142,635 |
| 2014 | 364,160 | 0 | 69,749 | 1,267,102 | (1,124,891) | 0 | 756,614 | 22,475,369 |
| 2015 | 378,302 | 0 | 74,509 | 1,033,374 | (1,275,385) | (346,277) | 0 | 22,339,892 |
| 2016 | 455,838 | 3,999 | 65,122 | 1,093,126 | (1,402,509) | 0 | (132,415) | 22,423,053 |
| 2017 | 441,990 | 99,812 | 55,225 | 1,283,762 | (1,604,695) | (603,884) | 104,618 | 22,199,881 |
| 2018 | 466,194 | 0 | 46,821 | 780,254 | (1,704,038) | 0 | 0 | 21,789,112 |
| 2019 | 453,554 | 0 | 47,418 | 994,541 | (1,691,826) | 0 | 120,047 | 21,712,846 |
| 2020 | 530,124 | 118 | 49,208 | 1,706,579 | (1,716,091) | 0 | 313,088 | 22,595,872 |

Notes:

Transfers in and out are usually related to the transfer of participants between municipalities, and to employer and employee payments for service credit purchases (if any) that the governing body has approved.

Additional employer contributions, if any, are shown separately starting in 2011. Prior to 2011, additional contributions are combined with the required employer contributions.

The investment income column reflects the recognized investment income based on Valuation Assets. It does not reflect the market value investment return in any given year.

The Valuation Asset balance includes assets from Surplus divisions, if any.

Years where historical information is not available will be displayed with zero values.

**Table 6: Actuarial Accrued Liabilities and Valuation Assets
as of December 31, 2020**

| Division | Actuarial Accrued Liability | | | | | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|------------------------------------|-----------------------------|-------------------------------|-------------------------------|--------------------|----------------------|----------------------|-------------------|--|
| | Active Employees | Vested Former Employees | Retirees and Beneficiaries | Pending Refunds | Total | | | |
| 02 - Cmmd Off & Pub Sfty & Ret w/1 | \$ 7,592,955 | \$ 476,651 | \$ 6,210,421 | \$ 0 | \$ 14,280,027 | \$ 11,373,395 | 79.6% | \$ 2,906,632 |
| 10 - General Nonunion & AFSCME | 950,290 | 467,546 | 2,980,860 | 189 | 4,398,885 | 3,786,569 | 86.1% | 612,316 |
| 20 - Cmmd Off & Pub Sfty Ret w/2% | 0 | 186,987 | 4,721,360 | 0 | 4,908,347 | 3,650,393 | 74.4% | 1,257,954 |
| 21 - Cmmd Off & Pub Sfty Def&Ret n | 0 | 0 | 5,437,388 | 0 | 5,437,388 | 3,785,515 | 69.6% | 1,651,873 |
| Total | \$ 8,543,245 | \$ 1,131,184 | \$ 19,350,029 | \$ 189 | \$ 29,024,647 | \$ 22,595,872 | 77.9% | \$ 6,428,775 |

Please see the Comments on Asset Smoothing in the Executive Summary of this report.

The December 31, 2020 valuation assets (actuarial value of assets) are equal to 0.972357 times the reported market value of assets. Refer to the Appendix for a description of the valuation asset derivation and a detailed calculation of valuation assets.

Table 7: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|-------------------|--|
| 2006 | \$ 2,698,285 | \$ 2,428,238 | 90% | \$ 270,047 |
| 2007 | 2,811,638 | 2,622,886 | 93% | 188,752 |
| 2008 | 3,259,993 | 2,726,662 | 84% | 533,331 |
| 2009 | 3,286,926 | 2,740,527 | 83% | 546,399 |
| 2010 | 3,409,094 | 2,746,799 | 81% | 662,295 |
| 2011 | 3,616,515 | 2,760,963 | 76% | 855,552 |
| 2012 | 3,554,401 | 2,771,278 | 78% | 783,123 |
| 2013 | 20,993,925 | 21,142,635 | 101% | (148,710) |
| 2014 | 23,242,891 | 22,475,369 | 97% | 767,522 |
| 2015 | 25,392,908 | 22,339,892 | 88% | 3,053,016 |
| 2016 | 25,195,545 | 22,423,053 | 89% | 2,772,492 |
| 2017 | 25,458,110 | 22,199,881 | 87% | 3,258,229 |
| 2018 | 25,812,948 | 21,789,112 | 84% | 4,023,836 |
| 2019 | 27,264,396 | 21,712,846 | 80% | 5,551,550 |
| 2020 | 29,024,647 | 22,595,872 | 78% | 6,428,775 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012, 2015, 2019 and 2020 actuarial valuations.

The Valuation Assets include assets from Surplus divisions, if any.

Years where historical information is not available will be displayed with zero values.

Throughout this report are references to valuation results generated prior to the 2018 valuation date. Results prior to 2018 were received directly from the prior actuary or extracted from the previous valuation system by MERS's technology service provider.

Tables 8 and 9: Division-Based Comparative Schedules

Division 02 - Cmmd Off & Pub Sfty & Ret w/1

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|-------------------|--|
| 2010 | \$ 0 | \$ 0 | 0% | \$ 0 |
| 2011 | 0 | 0 | 0% | 0 |
| 2012 | 0 | 0 | 0% | 0 |
| 2013 | 6,819,750 | 7,648,648 | 112% | (828,898) |
| 2014 | 8,955,053 | 8,287,467 | 93% | 667,586 |
| 2015 | 10,452,840 | 8,483,722 | 81% | 1,969,118 |
| 2016 | 10,534,090 | 9,120,316 | 87% | 1,413,774 |
| 2017 | 10,850,243 | 9,386,246 | 87% | 1,463,997 |
| 2018 | 11,579,309 | 9,724,100 | 84% | 1,855,209 |
| 2019 | 12,795,939 | 10,240,750 | 80% | 2,555,189 |
| 2020 | 14,280,027 | 11,373,395 | 80% | 2,906,632 |

Notes: Actuarial assumptions were revised for the 2010, 2011, 2012, 2015, 2019 and 2020 actuarial valuations.

Table 9-02: Computed Employer Contributions - Comparative Schedule

| Valuation Date December 31 | Active Employees | | Computed Employer Contribution ¹ | Employee Contribution Rate ² |
|-------------------------------|------------------|-------------------|---|---|
| | Number | Annual Payroll | | |
| 2010 | 0 | \$ 0 | \$ 0 | 0.00% |
| 2011 | 0 | 0 | \$ 0 | 0.00% |
| 2012 | 0 | 0 | \$ 0 | 0.00% |
| 2013 | 19 | 1,548,187 | \$ 12,991 | 5.00% |
| 2014 | 19 | 1,612,865 | \$ 26,588 | 5.00% |
| 2015 | 18 | 1,633,001 | \$ 35,222 | 5.00% |
| 2016 | 16 | 1,387,246 | \$ 26,644 | 5.00% |
| 2017 | 11 | 945,376 | \$ 23,609 | 5.00% |
| 2018 | 11 | 1,012,711 | \$ 29,170 | 5.00% |
| 2019 | 11 | 1,028,178 | \$ 38,387 | 5.00% |
| 2020 | 11 | 1,035,105 | \$ 40,248 | 5.00% |

1 For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

2 For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2020 valuations do not reflect the phase-in of the change in contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 10 - General Nonunion & AFSCME

Table 8-10: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|-------------------|--|
| 2010 | \$ 2,502,668 | \$ 1,623,677 | 65% | \$ 878,991 |
| 2011 | 2,632,347 | 1,629,862 | 62% | 1,002,485 |
| 2012 | 2,771,945 | 1,658,115 | 60% | 1,113,830 |
| 2013 | 2,927,907 | 1,729,892 | 59% | 1,198,015 |
| 2014 | 3,911,797 | 3,836,737 | 98% | 75,060 |
| 2015 | 4,207,654 | 3,914,528 | 93% | 293,126 |
| 2016 | 3,970,968 | 3,781,996 | 95% | 188,972 |
| 2017 | 4,003,643 | 3,793,988 | 95% | 209,655 |
| 2018 | 3,833,343 | 3,738,362 | 98% | 94,981 |
| 2019 | 4,044,923 | 3,718,400 | 92% | 326,523 |
| 2020 | 4,398,885 | 3,786,569 | 86% | 612,316 |

Notes: Actuarial assumptions were revised for the 2010, 2011, 2012, 2015, 2019 and 2020 actuarial valuations.

Table 9-10: Computed Employer Contributions - Comparative Schedule

| Valuation Date December 31 | Active Employees | | Computed Employer Contribution ¹ | Employee Contribution Rate ² |
|-------------------------------|------------------|-------------------|---|---|
| | Number | Annual Payroll | | |
| 2010 | 9 | \$ 504,998 | 19.16% | 0.00% |
| 2011 | 9 | 512,168 | 20.72% | 0.00% |
| 2012 | 11 | 655,135 | 21.29% | 0.00% |
| 2013 | 11 | 671,265 | 21.96% | 0.00% |
| 2014 | 11 | 696,962 | 10.68% | 0.00% |
| 2015 | 8 | 524,413 | \$ 6,348 | 0.00% |
| 2016 | 8 | 517,981 | \$ 5,849 | 0.00% |
| 2017 | 7 | 478,539 | \$ 5,794 | 0.00% |
| 2018 | 6 | 418,496 | \$ 4,313 | 0.00% |
| 2019 | 6 | 437,079 | \$ 6,528 | 0.00% |
| 2020 | 5 | 406,614 | \$ 8,950 | 0.00% |

1 For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

2 For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2020 valuations do not reflect the phase-in of the change in contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 20 - Cmmd Off & Pub Sfty Ret w/2%

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|-------------------|--|
| 2010 | \$ 0 | \$ 0 | 0% | \$ 0 |
| 2011 | 0 | 0 | 0% | 0 |
| 2012 | 0 | 0 | 0% | 0 |
| 2013 | 5,698,413 | 2,382,199 | 42% | 3,316,214 |
| 2014 | 5,731,234 | 5,671,400 | 99% | 59,834 |
| 2015 | 6,608,648 | 6,027,818 | 91% | 580,830 |
| 2016 | 6,674,184 | 5,940,040 | 89% | 734,144 |
| 2017 | 6,218,061 | 5,327,998 | 86% | 890,063 |
| 2018 | 5,372,363 | 4,359,150 | 81% | 1,013,213 |
| 2019 | 4,887,606 | 3,681,373 | 75% | 1,206,233 |
| 2020 | 4,908,347 | 3,650,393 | 74% | 1,257,954 |

Notes: Actuarial assumptions were revised for the 2010, 2011, 2012, 2015, 2019 and 2020 actuarial valuations.

Table 9-20: Computed Employer Contributions - Comparative Schedule

| Valuation Date December 31 | Active Employees | | Computed Employer Contribution ¹ | Employee Contribution Rate ² |
|-------------------------------|------------------|-------------------|---|---|
| | Number | Annual Payroll | | |
| 2010 | 0 | \$ 0 | \$ 0 | 0.00% |
| 2011 | 0 | 0 | \$ 0 | 0.00% |
| 2012 | 0 | 0 | \$ 0 | 0.00% |
| 2013 | 0 | 0 | \$ 17,906 | 0.00% |
| 2014 | 0 | 0 | \$ 0 | 0.00% |
| 2015 | 0 | 0 | \$ 3,332 | 0.00% |
| 2016 | 0 | 0 | \$ 5,281 | 0.00% |
| 2017 | 0 | 0 | \$ 6,736 | 0.00% |
| 2018 | 0 | 0 | \$ 8,385 | 0.00% |
| 2019 | 0 | 0 | \$ 11,419 | 0.00% |
| 2020 | 0 | 0 | \$ 12,415 | 0.00% |

1 For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

2 For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2020 valuations do not reflect the phase-in of the change in contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Division 21 - Cmmd Off & Pub Sfty Def&Ret n

Table 8-21: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|-------------------|--|
| 2010 | \$ 0 | \$ 0 | 0% | \$ 0 |
| 2011 | 0 | 0 | 0% | 0 |
| 2012 | 0 | 0 | 0% | 0 |
| 2013 | 4,753,319 | 8,266,476 | 174% | (3,513,157) |
| 2014 | 4,644,807 | 4,679,765 | 101% | (34,958) |
| 2015 | 4,123,766 | 3,913,824 | 95% | 209,942 |
| 2016 | 4,016,303 | 3,580,701 | 89% | 435,602 |
| 2017 | 4,386,163 | 3,691,649 | 84% | 694,514 |
| 2018 | 5,027,933 | 3,967,500 | 79% | 1,060,433 |
| 2019 | 5,535,928 | 4,072,323 | 74% | 1,463,605 |
| 2020 | 5,437,388 | 3,785,515 | 70% | 1,651,873 |

Notes: Actuarial assumptions were revised for the 2010, 2011, 2012, 2015, 2019 and 2020 actuarial valuations.

Table 9-21: Computed Employer Contributions - Comparative Schedule

| Valuation Date December 31 | Active Employees | | Computed Employer Contribution ¹ | Employee Contribution Rate ² |
|-------------------------------|------------------|-------------------|---|---|
| | Number | Annual Payroll | | |
| 2010 | 0 | \$ 0 | \$ 0 | 0.00% |
| 2011 | 0 | 0 | \$ 0 | 0.00% |
| 2012 | 0 | 0 | \$ 0 | 0.00% |
| 2013 | 0 | 0 | \$ 0 | 0.00% |
| 2014 | 0 | 0 | \$ 0 | 0.00% |
| 2015 | 0 | 0 | \$ 1,472 | 0.00% |
| 2016 | 0 | 0 | \$ 3,176 | 0.00% |
| 2017 | 0 | 0 | \$ 5,398 | 0.00% |
| 2018 | 0 | 0 | \$ 9,074 | 0.00% |
| 2019 | 0 | 0 | \$ 14,159 | 0.00% |
| 2020 | 0 | 0 | \$ 16,539 | 0.00% |

1 For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

2 For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2020 valuations do not reflect the phase-in of the change in contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above.

See the Benefit Provision History, later in this report, for past benefit provision changes.

Years where historical information is not available will be displayed with zero values.

Table 10: Division-Based Layered Amortization Schedule

Division 02 - Cmmd Off & Pub Sfty & Ret w/1

Table 10-02: Layered Amortization Schedule

| Type of UAL | Date Established | Original Balance ¹ | Original Amortization Period ² | Amounts for Fiscal Year Beginning 7/1/2022 | | |
|--------------|------------------|-------------------------------|---|--|--|-----------------------------|
| | | | | Outstanding UAL Balance ³ | Remaining Amortization Period ² | Annual Amortization Payment |
| Initial | 12/31/2015 | \$ 1,969,118 | 19 | \$ 2,013,680 | 10 | \$ 249,504 |
| (Gain)/Loss | 12/31/2016 | (763,800) | 17 | (777,487) | 10 | (96,336) |
| (Gain)/Loss | 12/31/2017 | 74,797 | 15 | 76,661 | 10 | 9,504 |
| (Gain)/Loss | 12/31/2018 | 420,905 | 13 | 437,904 | 10 | 54,264 |
| (Gain)/Loss | 12/31/2019 | 201,253 | 11 | 213,659 | 10 | 26,472 |
| Assumption | 12/31/2019 | 479,347 | 11 | 497,217 | 10 | 61,608 |
| Experience | 12/31/2020 | 325,871 | 10 | 362,451 | 10 | 44,916 |
| Total | | | | \$ 2,824,085 | | \$ 349,932 |

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2020 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2020 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 10 - General Nonunion & AFSCME

Table 10-10: Layered Amortization Schedule

| Type of UAL | Date Established | Original Balance ¹ | Original Amortization Period ² | Amounts for Fiscal Year Beginning 7/1/2022 | | |
|--------------|------------------|-------------------------------|---|--|--|-----------------------------|
| | | | | Outstanding UAL Balance ³ | Remaining Amortization Period ² | Annual Amortization Payment |
| Initial | 12/31/2015 | \$ 293,126 | 21 | \$ 253,717 | 13 | \$ 25,608 |
| (Gain)/Loss | 12/31/2016 | (73,493) | 19 | (78,329) | 13 | (7,908) |
| (Gain)/Loss | 12/31/2017 | 23,370 | 17 | 24,921 | 13 | 2,520 |
| (Gain)/Loss | 12/31/2018 | (114,179) | 15 | (122,602) | 13 | (12,372) |
| (Gain)/Loss | 12/31/2019 | 128,583 | 14 | 139,377 | 13 | 14,064 |
| Assumption | 12/31/2019 | 112,314 | 14 | 120,497 | 13 | 12,156 |
| Experience | 12/31/2020 | 274,460 | 13 | 305,269 | 13 | 30,804 |
| Total | | | | \$ 642,850 | | \$ 64,872 |

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2020 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2020 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 20 - Cmmd Off & Pub Sfty Ret w/2%

Table 10-20: Layered Amortization Schedule

| Type of UAL | Date Established | Original Balance ¹ | Original Amortization Period ² | Amounts for Fiscal Year Beginning 7/1/2022 | | |
|--------------|------------------|-------------------------------|---|--|--|-----------------------------|
| | | | | Outstanding UAL Balance ³ | Remaining Amortization Period ² | Annual Amortization Payment |
| Initial | 12/31/2015 | \$ 580,830 | 19 | \$ 484,000 | 10 | \$ 59,976 |
| (Gain)/Loss | 12/31/2016 | 222,040 | 17 | 226,013 | 10 | 28,008 |
| (Gain)/Loss | 12/31/2017 | 119,471 | 15 | 122,437 | 10 | 15,168 |
| (Gain)/Loss | 12/31/2018 | 106,961 | 13 | 111,272 | 10 | 13,788 |
| (Gain)/Loss | 12/31/2019 | 16,591 | 11 | 17,608 | 10 | 2,184 |
| Assumption | 12/31/2019 | 172,693 | 11 | 177,586 | 10 | 22,008 |
| Experience | 12/31/2020 | 56,909 | 10 | 63,297 | 10 | 7,848 |
| Total | | | | \$ 1,202,213 | | \$ 148,980 |

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2020 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2020 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

Division 21 - Cmmd Off & Pub Sfty Def&Ret n

Table 10-21: Layered Amortization Schedule

| Type of UAL | Date Established | Original Balance ¹ | Original Amortization Period ² | Amounts for Fiscal Year Beginning 7/1/2022 | | |
|--------------|------------------|-------------------------------|---|--|--|-----------------------------|
| | | | | Outstanding UAL Balance ³ | Remaining Amortization Period ² | Annual Amortization Payment |
| Initial | 12/31/2015 | \$ 209,942 | 19 | \$ 213,729 | 10 | \$ 26,484 |
| (Gain)/Loss | 12/31/2016 | 209,528 | 17 | 213,284 | 10 | 26,424 |
| (Gain)/Loss | 12/31/2017 | 234,311 | 15 | 240,152 | 10 | 29,760 |
| (Gain)/Loss | 12/31/2018 | 340,350 | 13 | 354,098 | 10 | 43,872 |
| (Gain)/Loss | 12/31/2019 | 236,831 | 11 | 251,426 | 10 | 31,152 |
| Assumption | 12/31/2019 | 138,639 | 11 | 139,677 | 10 | 17,304 |
| Experience | 12/31/2020 | 170,285 | 10 | 189,400 | 10 | 23,472 |
| Total | | | | \$ 1,601,766 | | \$ 198,468 |

¹ For each type of UAL (layer), this is the original balance as of the date the layer was established.

² According to the MERS amortization policy, each type of UAL (layer) is amortized over a specific period (see Appendix on MERS website).

³ This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

The unfunded accrued liability (UAL) as of December 31, 2020 (see Table 6) is projected to the beginning of the fiscal year for which the contributions are being calculated. This allows the 2020 valuation to take into account the expected future contributions that are based on past valuations. Each type of UAL (layer) is amortized over the appropriate period. Please see the Appendix on the MERS website for a detailed description of the amortization policy.

Note: The original balance and original amortization periods prior to 12/31/2018 were received from the prior actuary.

GASB Statement No. 68 Information

The following information has been prepared to provide some of the information necessary to complete GASB Statement No. 68 disclosures. GASB Statement No. 68 is effective for fiscal years beginning after June 15, 2014. Additional resources, including an Implementation Guide, are available at <http://www.mersofmich.com/>.

| | |
|--|------------|
| Actuarial Valuation Date: | 12/31/2020 |
| Measurement Date of the Total Pension Liability (TPL): | 12/31/2020 |

At 12/31/2020, the following employees were covered by the benefit terms:

| | |
|--|-----------|
| Inactive employees or beneficiaries currently receiving benefits: | 58 |
| Inactive employees entitled to but not yet receiving benefits (including refunds): | 12 |
| Active employees: | <u>16</u> |
| | 86 |

| | |
|--|---------------|
| Total Pension Liability as of 12/31/2019 measurement date: | \$ 26,570,396 |
|--|---------------|

| | |
|--|---------------|
| Total Pension Liability as of 12/31/2020 measurement date: | \$ 28,270,044 |
|--|---------------|

| | |
|--|------------|
| Service Cost for the year ending on the 12/31/2020 measurement date: | \$ 258,595 |
|--|------------|

Change in the Total Pension Liability due to:

| | |
|---|------------|
| - Benefit changes ¹ : | \$ 0 |
| - Differences between expected and actual experience ² : | \$ 272,445 |
| - Changes in assumptions ² : | \$ 920,735 |

| | |
|--|---|
| Average expected remaining service lives of all employees (active and inactive): | 1 |
|--|---|

¹ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

² Changes in liability due to differences between actual and expected experience, and changes in assumptions, are recognized in pension expense over the average remaining service lives of all employees.

| | |
|---|--------------|
| Covered employee payroll (Needed for Required Supplementary Information): | \$ 1,441,719 |
|---|--------------|

Note: Covered employee payroll may differ from the GASB Statement No. 68 definition.

Sensitivity of the Net Pension Liability to changes in the discount rate:

| | 1% Decrease (6.60%) | Current Discount Rate (7.60%) | 1% Increase (8.60%) |
|---|------------------------|----------------------------------|------------------------|
| Change in Net Pension Liability as of 12/31/2020: | \$ 3,238,165 | \$ 0 | \$ (2,705,601) |

Note: The current discount rate shown for GASB Statement No. 68 purposes is higher than the MERS assumed rate of return. This is because for GASB Statement No. 68 purposes, the discount rate must be gross of administrative expenses, whereas for funding purposes it is net of administrative expenses.

Benefit Provision History

The following benefit provision history is provided by MERS. Any corrections to this history or discrepancies between this information and information displayed elsewhere in the valuation report should be reported to MERS. All provisions are listed by date of adoption.

02 - Cmmd Off & Pub Sfty & Ret w/1

| | |
|------------|---|
| 12/1/2020 | Non-Accelerated Amortization |
| 12/31/2018 | Accelerated to 5-year Amortization |
| 12/19/2017 | Covered by Act 88 |
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 6/1/2013 | DROP+ Program - 4% Reduction |
| 6/1/2013 | Day of work defined as 12 Hours a Day for All employees. |
| 6/1/2013 | Benefit D2 Plan |
| 6/1/2013 | 25 Years & Out |
| 6/1/2013 | Benefit FAC-2 (2 Year Final Average Compensation) |
| 6/1/2013 | Non Standard Compensation Definition |
| 6/1/2013 | 10 Year Vesting |
| 6/1/2013 | Benefit B-4 (80% max) |
| 6/1/2013 | Benefit F55 (With 10 Years of Service) |
| 6/1/2013 | Member Contribution Rate 5.00% |
| 6/1/2013 | E2 1% Comp COLA for future retirees (06/01/2013) |
| 6/1/2013 | DC Adoption Date 06-01-2013 |
| | Fiscal Month - July |
| | Defined Benefit Normal Retirement Age - 60 |
| | Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years |

10 - General Nonunion & AFSCME

| | |
|------------|---|
| 12/1/2020 | Non-Accelerated Amortization |
| 12/19/2017 | Covered by Act 88 |
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 7/1/2015 | Accelerated to 15-year Amortization |
| 7/1/2015 | DC Adoption Date 07-01-2015 |
| 12/1/2001 | Benefit B-4 (80% max) |
| 7/1/1998 | Benefit FAC-3 (3 Year Final Average Compensation) |
| 7/1/1998 | 10 Year Vesting |
| 7/1/1998 | Benefit B-3 (80% max) |
| 7/1/1998 | Member Contribution Rate 0.00% |
| | Fiscal Month - July |
| | Defined Benefit Normal Retirement Age - 60 |
| | Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years |

20 - Cmmd Off & Pub Sfty Ret w/2%

| | |
|------------|---|
| 12/1/2020 | Non-Accelerated Amortization |
| 12/31/2018 | Accelerated to 5-year Amortization |
| 12/19/2017 | Covered by Act 88 |
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 8/1/2013 | E1 2% Comp COLA for past retirees (08/01/2013) |
| 6/1/2013 | Benefit FAC-3 (3 Year Final Average Compensation) |



20 - Cmmd Off & Pub Sfty Ret w/2%

| | |
|----------|---|
| 6/1/2013 | 6 Year Vesting |
| 6/1/2013 | Benefit B-1 |
| | Fiscal Month - July |
| | Defined Benefit Normal Retirement Age - 60 |
| | Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years |

21 - Cmmd Off & Pub Sfty Def&Ret n

| | |
|------------|---|
| 12/1/2020 | Non-Accelerated Amortization |
| 12/31/2018 | Accelerated to 5-year Amortization |
| 12/19/2017 | Covered by Act 88 |
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 6/1/2013 | Benefit FAC-3 (3 Year Final Average Compensation) |
| 6/1/2013 | 6 Year Vesting |
| 6/1/2013 | Benefit B-1 |
| | Fiscal Month - July |
| | Defined Benefit Normal Retirement Age - 60 |
| | Early Reduced (.5%) at Age 50 with 25 Years or Age 55 with 15 Years |

Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology can be found in the Appendix. Some actuarial assumptions are specific to this municipality and its divisions. These are listed below.

Increase in Final Average Compensation

| Division | FAC Increase Assumption |
|---------------|-------------------------|
| All Divisions | 1.00% |

Miscellaneous and Technical Assumptions

Loads – For divisions with the DROP+ provision, the present value of future benefits, actuarial accrued liability, and total normal costs are increased by 16%.

Amortization Policy for Closed Not Linked Divisions: The default funding policy for closed not linked divisions, including open divisions with zero active members, is to follow a non-accelerated amortization, where each closed period decreases by one-year each year until the period is exhausted. In select instances, closed not linked division(s) may follow an accelerated amortization policy.

Risk Commentary

Determination of the accrued liability, the employer contribution, and the funded ratio requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability, the actuarially determined contribution and the funded ratio that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the plan's future financial condition include:

- **Investment Risk** – actual investment returns may differ from the expected returns;
- **Asset/Liability Mismatch** – changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and contribution requirements;
- **Salary and Payroll Risk** – actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- **Longevity Risk** – members may live longer or shorter than expected and receive pensions for a period of time other than assumed; and
- **Other Demographic Risks** – members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example, if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the cost of the plan can be expected to increase (or decrease). Likewise, if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

PLAN MATURITY MEASURES

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

| | <u>12/31/2020</u> | <u>12/31/2019</u> | <u>12/31/2018</u> |
|---|-------------------|-------------------|-------------------|
| 1. Ratio of the market value of assets to total payroll | 16.1 | 14.6 | 13.9 |
| 2. Ratio of actuarial accrued liability to payroll | 20.1 | 18.6 | 18.0 |
| 3. Ratio of actives to retirees and beneficiaries | 0.3 | 0.3 | 0.3 |
| 4. Ratio of market value of assets to benefit payments | 13.5 | 12.7 | 11.7 |
| 5. Ratio of net cash flow to market value of assets (boy) | -3.8% | -5.4% | -5.4% |

RATIO OF MARKET VALUE OF ASSETS TO TOTAL PAYROLL

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions as a percentage of payroll.

RATIO OF ACTUARIAL ACCRUED LIABILITY TO PAYROLL

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of contributions for a fully funded plan. A funding policy that targets a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

RATIO OF ACTIVES TO RETIREES AND BENEFICIARIES

A young plan with many active members and few retirees will have a high ratio of actives to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

RATIO OF MARKET VALUE OF ASSETS TO BENEFIT PAYMENTS

The MERS' Actuarial Policy requires a total minimum contribution equal to the excess (if any) of three times the expected annual benefit payments over the projected market value of assets as of the participating municipality or court's Fiscal Year for which the contribution applies. The ratio of market value of assets to benefit payments as of the valuation date provides an indication of whether the division is at risk for triggering the minimum contribution rule in the near term. If the division triggers this minimum contribution rule, the required employer contributions could increase dramatically relative to previous valuations.

RATIO OF NET CASH FLOW TO MARKET VALUE OF ASSETS

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

State Reporting

The following information has been prepared to provide some of the information necessary to complete the Public Act 202 pension reporting requirements for the State of Michigan's Local Government Retirement System Annual Report (Form No. 5572). Additional resources are available at www.mersofmich.com and on the State [website](#).

| Form 5572 | | |
|----------------|---|---------------|
| Line Reference | Description | Result |
| 10 | Membership as of December 31, 2020 | |
| 11 | Indicate number of active members | 16 |
| 12 | Indicate number of inactive members (excluding pending refunds) | 11 |
| 13 | Indicate number of retirees and beneficiaries | 58 |
| 14 | Investment Performance for Calendar Year Ending December 31, 2020¹ | |
| 15 | Enter actual rate of return - prior 1-year period | 13.59% |
| 16 | Enter actual rate of return - prior 5-year period | 9.35% |
| 17 | Enter actual rate of return - prior 10-year period | 7.91% |
| 18 | Actuarial Assumptions | |
| 19 | Actuarial assumed rate of investment return ² | 7.35% |
| 20 | Amortization method utilized for funding the system's unfunded actuarial accrued liability, if any | Level Percent |
| 21 | Amortization period utilized for funding the system's unfunded actuarial accrued liability, if any ³ | 13 |
| 22 | Is each division within the system closed to new employees? ⁴ | Yes |
| 23 | Uniform Assumptions | |
| 24 | Enter retirement pension system's actuarial value of assets using uniform assumptions | \$22,437,876 |
| 25 | Enter retirement pension system's actuarial accrued liabilities using uniform assumptions ⁵ | \$30,140,588 |
| 27 | Actuarially Determined Contribution (ADC) using uniform assumptions, Fiscal Year Ending June 30, 2021 | \$929,448 |

- ¹. The Municipal Employees' Retirement System's investment performance has been provided to GRS from MERS Investment Staff and is included here for reporting purposes. The investment performance figures reported are net of investment expenses on a rolling calendar-year basis for the previous 1-, 5-, and 10-year periods as required under PA 530.
- ². Net of administrative and investment expenses.
- ³. Populated with the longest amortization period remaining in the amortization schedule, across all divisions in the plan. This is when each division and the plan in total is expected to reach 100% funded if all assumptions are met.
- ⁴. If all divisions within the employer are closed, "yes." If at least one division is open (including shadow divisions) indicate "no."
- ⁵. Line 25 actuarial accrued liability is determined under PA 202 uniform assumptions which differ from the valuation assumptions. In particular, the assumed rate of return for PA 202 purposes is 7.00%.



To: Honorable President George; Village Council Members
Chris Wilson, Village Manager

CC: Kevin Lawrence, Public Services Director

From: Kristin Rutkowski, Village Clerk/Assistant Village Manager

Subject: OAKSTEM Grant Application

Date: July 15, 2021

Oakland County has established the 2021 Oakland County Street Tree Enhancement Match (OAKSTEM) Grant Pilot Program to decrease impervious surface area and increase the tree canopy in communities that make up the George W. Kuhn (GWK) Drainage District. The Program seeks to assist GWK Communities by offering limited matching funds for street tree plantings on public road rights of way that are under their jurisdiction, or on public road ROW directly adjacent to land publicly owned by these GWK Communities, and that are within the GWK District.

The County selected the GWK District for the following reasons:

- The GWK District has an impervious surface area of 49.2% compared to 19.9% for the County as a whole.
- Tree cover in the GWK is 23.3%, while the overall County is 44%.
- This results in large peak flows during storm events. With the entire GWK District having combined sewers, this contributes greatly to the past flooding issues in the area.

This program is intended to provide an incentive to GWK communities to either begin, or continue and expand, their public street tree planting program(s) in order to: increase tree canopy; improve air quality; reduce impervious surface area; enhance aesthetics; reduce peak flow stormwater run-off; reduce flooding risk; attract, retain and grow business and jobs; reduce noise; and encourage further community investment.

Beverly Hills is one of the 14 communities eligible to apply for grant funding through the OAKSTEM Program. Since only a portion of Beverly Hills is in the GWK Drainage District, only that area is eligible for tree planting (map attached).

Beverly Hills' projected base amount allocation is \$10,021.00. The grant program is a 1:1 match and matching funds may only be used for trees and warranties. Administration recommends applying for up to the \$10,021 base allocation.

Part of the grant application requires a resolution from the governing body approving the Community's participation in the program, designating the person authorized to sign on the Community's behalf, and certifying the Community's commitment to complying with the Program's requirements. A resolution is attached for Council's review and consideration.

Attachments



**RESOLUTION AUTHORIZING ADMINISTRATION TO SUBMIT
2021 OAKSTEM PROGRAM APPLICATION TO OAKLAND COUNTY**

WHEREAS, Oakland County has established the OAKSTEM 2021 Oakland County Street Tree Enhancement Match Pilot Program (the “Program”) for communities that are wholly or partly within the George W. Kuhn (GWK) Drainage District;

WHEREAS, the Program seeks to assist GWK Communities by providing limited matching funds for street tree planting projects on public road rights of way (ROW) that are under their jurisdiction or on public road ROW directly adjacent to land publicly owned by the GWK Communities;

WHEREAS, the Village of Beverly Hills (the “Community”) wishes to submit a 2021 OAKSTEM Program Application seeking matching reimbursement funds from the Program, in an estimated amount of up to \$10,021 on a 1/1 matching basis for reimbursement for a project briefly described as Beverly Hills local public street tree planting, which is located in the GWK Drainage District; and

NOW THEREFORE, be it resolved, the Beverly Hills Village Council hereby approves (i) the completion and submission of the 2021 OAKSTEM Application to seek funding through the Program; (ii) if the Application is approved by Oakland County, the Community’s participation in the Program; and (iii) the appropriation and expenditure of funds necessary or appropriate to fund its obligations under the Program as set forth in the Application and the Cost Participation Agreement, and hereby authorizes Chris Wilson, Village Manager, to sign the Application and all Agreements and take any other action necessary or appropriate on the Community’s behalf to participate in the Program and certifies that the Community will comply with the Program’s requirements, including submittal of a final report and other documentation as required by the County, as a condition to receiving reimbursement in accordance with the Program.


Passed and approved on this _____ day of July, 2021.

Beverly Hills


OAKSTEM 2021


George W. Kuhn (GWK) Drainage District


 GWK (Eligible Planting Area)

 Municipal Boundary

 Interstate/Highway


 Major Road

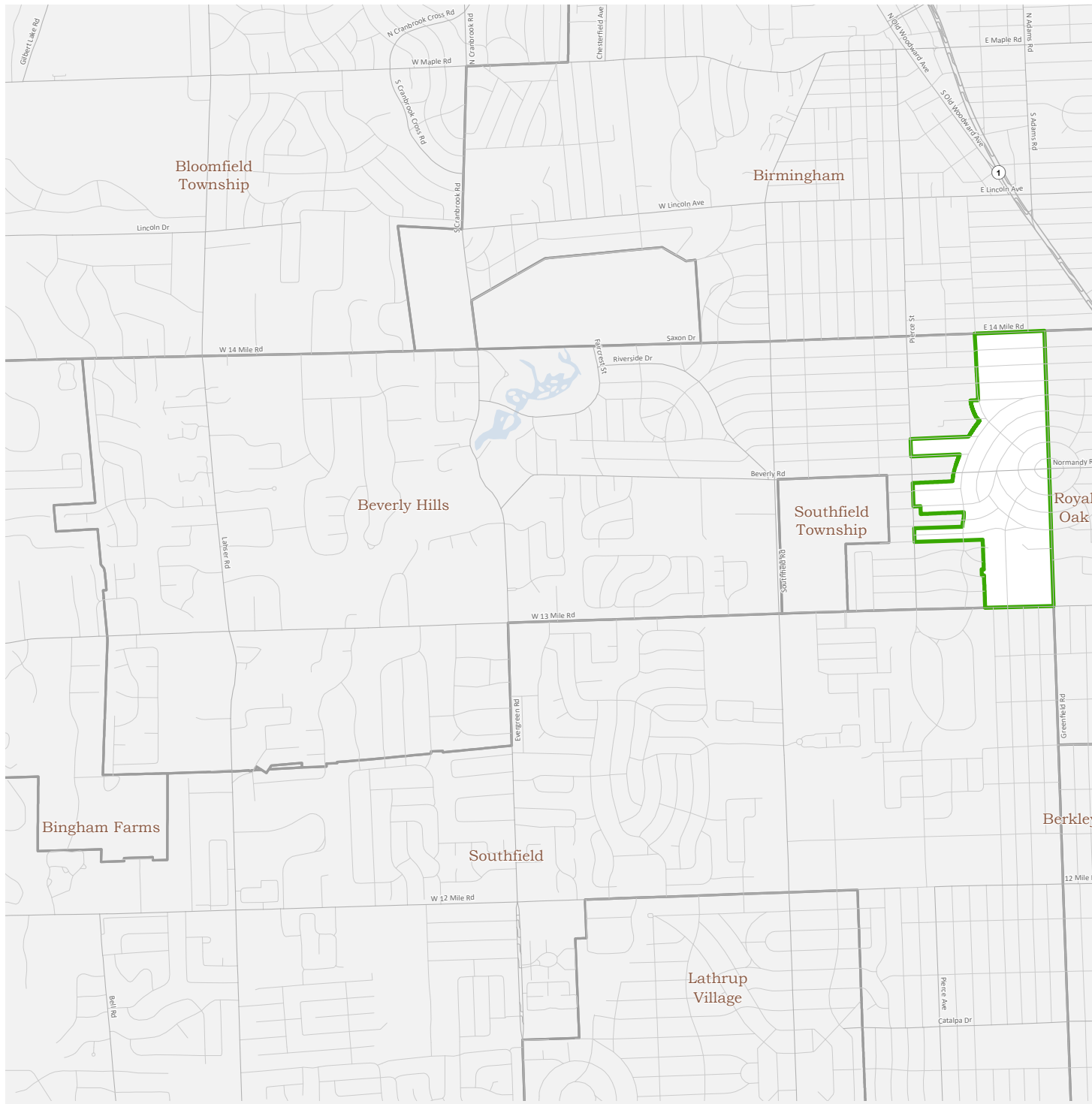
 Minor

 Lake/Stream



Map Created on July 7, 2021

 Miles



The information provided herewith has been compiled from recorded deeds, plats, tax maps, surveys and other public records. It is not a legally recorded map or survey and is not intended to be used as one. Users should consult the information sources mentioned above when questions arise.



David Coulter, County Executive
2100 Pontiac Lake Road, Bldg. 41W
Waterford, MI 48328-0412
248.858.0721
www.AdvantageOakland.com



To: Village President George, Village Council
Chris Wilson, Village Manager

From: Mark D. Lloyd, Planning & Zoning Administrator

Date: July 14, 2021

Re: Proposed Redevelopment of Vacant Lot at 31655 Southfield

Hobbs & Black Architects have submitted a proposal for development of a childcare facility, The Goddard School of Beverly Hills, at 31655 Southfield Road in the B-Business District and within the Village Center Overlay District (VCOD). The property is approximately 1.5 acres in size, irregularly shaped and located on the west side of Southfield north of 13 Mile. The property is currently vacant and was the site of a former McDonalds fast-food restaurant with drive-through facilities

The B-Business zoning district allows for the subject childcare use as a principal permitted use subject to site development standards listed in the Village Zoning Ordinance. The applicant proposes a mixed-use development project consisting of 2 buildings. Building 1 is a two-story, 16,000 square foot childcare/preschool building with multiple classrooms and facilities and includes a screened mechanical room on top. Building 2 is also two-stories consisting of 5,000 square feet of floor area with mixed uses including office and retail. Both buildings are architecturally compatible with matching colors and materials including, decorative earth tone masonry accented by tinted aluminum storefront doors and glazing. All four sides of each building will include simulated wood panels, fiber cement panels and metal trim. Detailed plans and elevations are included for review.

Parking for the childcare building is based on the number of children to be served which is 200 resulting in 27 required spaces for the childcare use. Parking for the office/retail uses is based on gross floor area requiring 16 spaces for those uses resulting in a total of 43 required spaces. The applicant is proposing 57 total spaces resulting in a surplus of 14 spaces. Hours of operation will be from 6:30 a.m. to 6:30 p.m. M – F and closed on weekends.

Outdoor play area requirements per the Village Ordinance is 150 square feet per child resulting in 30,000 square feet of outdoor space for 200 children. The applicant is proposing 10,240 square feet of play area resulting in a deficit of 19,760 square feet. The applicant will be required to obtain a variance from the Village Zoning Board of Appeals. Point of Interest; the State of Michigan would only require 1,200 square feet of outdoor play area in this instance.

The Village Center Overlay District was established with a set of defined purpose and development principles as follows:

- a. Define a Village Center area for Beverly Hills that will create an identity for its commercial Core
- b. Implement the Village Center Vision as illustrated in the Beverly Hills Village Center Plan

- c. Promote development of an integrated, mixed-use, pedestrian-oriented environment with buildings containing commercial, residential and office uses
- d. Provide street linkages and internal drives to serve the development within the district, and logical Street connections to developments outside the district
- e. Regulate building height and require appropriate landscaping and screening to achieve appropriate scale along streetscapes and ensure proper transition to nearby residential neighborhoods
- f. Create a definable sense of place for the Village with a pedestrian oriented, traditional urban form that encourages residents to visit, stay, and enjoy the district
- g. Encourage development consistent with the desired vision through incentives that will encourage use of the form-based code option

As part of the process for review and consideration of development in the Village Center Overlay District (VCOD), a certain amount of flexibility is afforded to the applicant and Village in order to ensure the project meets intent of the Plan and that the Village's long-term goals and objectives are met for development in this area. Administration requested a detailed response from the applicant identifying how the proposed project meets the VCOD Ordinance. A copy of that response is included for Council review. The VCOD also calls for a Development Agreement between the developer and the Village. The terms and conditions of the Development Agreement will need to be considered as part of the overall review process for this project.

A number of issues which should be addressed as part of the review of this project are listed below. Some of these issues will be addressed by modifying the site plan. Others will be addressed through negotiation and inclusion in the Development Agreement. The applicant has been requested to prepare a draft development agreement for consideration.

- Proposed contributions in-lieu of improvements
- Use and access to public space
- All classrooms to include windows to the hallway
- No future land division without Council approval, which will not be unreasonably withheld
- The Ordinance requires a north/south vehicular connection between the site and other properties in the VCOD. The plan either needs to be amended, or a deviation sought.
- 1 additional street tree is required along Gould Court.
- The Ordinance requires decorative street lighting along Southfield Road.
- The Ordinance requires that the building occupy 75% of the Southfield Road frontage. Given the need for a curb cut, I don't believe this standard is practical. The applicant should include this as a deviation and provide justification.
- In my opinion, the parallel parking spaces should either be removed from the plan, or dedicated as employee spaces.
- The amount of outdoor play area required by the Ordinance is not met. This will require modifications to the plan that comply, or a variance from ZBA.
- The project architect should address the building architecture and material standards of the VCOD.
- Additional information regarding the use of the annex building is needed.
- Any deviations requested from the VCOD should be enumerated and include a description of their justification per the standards in the Ordinance.

Village Administration has forwarded the draft site plan to HRC, Engineering for their review. The Department of Public Safety will handle all issues relative to Fire Code Compliance.

Village Administration has reviewed the site plan as submitted and determine the proposed use is allowable in this district and recommends Council forward the plan to the Planning Commission for their review and recommendation.

Administration and the applicant will be available to respond to any questions the Council may have.

Suggested Resolution

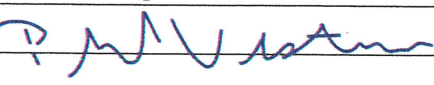
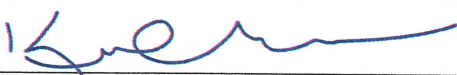
Be it so resolved that the Village Council refer the site plan submitted for the property at 31655 Southfield Road on behalf of The Goddard School to the Planning Commission for their review and recommendation.

attachments

Village of Beverly Hills
 Building & Planning
 18500 W 13 Mile Rd
 Beverly Hills, MI 48025
 Phone: (248) 646-6404 Fax: (248) 646-3703
www.villagebeverlyhills.com

****Staff Use Only****

Date Received: _____
 Review/Mtg Date: _____
 Decision: _____
☐ Approved ☐ Denied ☐ ZBA
 Notes: _____

| Application for Site Plan Review and Special Land Use | |
|--|---|
| Property Address & Parcel I.D. Number(s) | Address: 31655 Southfield Road, Beverly Hills MI (prop ID 2402427006) |
| | Parcel ID(s): |
| Project Description (Attach additional pages if necessary) | Mixed Use development on approximately 1.5 acres in the B-Business District zoning consisting of 2 buildings. |
| | Building 1) a two story 16,000 sq. ft. childcare center/preschool building. A permitted use in the B-Business District zoning |
| | Building 2) two story 5,000 sq. ft. mixed use/office/retail building. All uses to comply with the B-Business District zoning |
| Applicant (must have legal interest in property) | Name: Kellie McDonald |
| | Business: The Goddard School Beverly Hills |
| | Address: 935 E Silverbell Road, Lake Orion, MI 48360 |
| | City: Lake Orion State: MI Zip: 48360 |
| | Phone: 248-364-4401 Email: lakeorionmi@goddardschools.com |
| | Legal Interest: <input type="checkbox"/> Own Property <input type="checkbox"/> Lease Property <input checked="" type="checkbox"/> Offer to Purchase (please attach) |
| | <input type="checkbox"/> Other (e.g. attorney, architect, etc.): |
| Primary Contact <input type="checkbox"/> Same as Applicant | Name: Brian Bagnick |
| | Business: Hobbs & Black |
| | Address: 100 North State Street |
| | City: Ann Arbor State: MI Zip: 48104 |
| | Phone: 734-663-4189 (x145) Email: bbagnick@hobbs-black.com |
| | Relationship to Applicant (e.g. architect, attorney, etc.): Architect |
| Property Owner <input type="checkbox"/> Same as Applicant | Name: Phil Vestevich |
| | Business: Vestcor III, LLC |
| | Address: |
| | City: State: Zip: |
| | Phone: Email: phvestevich@vmddlav.com |
| | Property Owner Signature (if other than applicant):  |
| Applicant Signature | X:  |

In order to be considered at an upcoming meeting, this application and all required documents and materials must be submitted by the established deadline date for the next regular meeting of the Council, Planning Commission, and/or Zoning Board of Appeals. Submittal by deadline does not guarantee placement on the agenda. Please refer to Sections 22.08.290 and 22.08.300. Incomplete submittals will not be considered.

Note: the applicant or a representative must be present at all meetings.

PRELIMINARY SITE PLAN DRAWINGS

31655 SOUTHFIELD ROAD

LEGAL DESCRIPTION (AS PROVIDED)

(PER TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: 899970,
EFFECTIVE DATE: AUGUST 11, 2020)

EXHIBIT C DESCRIPTION:

LAND IN THE VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI,
DESCRIBED AS FOLLOWS:

LOT(S) 6, EXCEPT THEREFROM THE EAST 200 FEET OF THE SOUTH 56.66 FEET AND ALL OF OUT LOT A OF SUPERVISOR'S PLAT OF GOULD COURT ACCORDING TO THE PLAT THEREOF RECORDED IN LIBER 65 OF PLATS, PAGE 11 OF OAKLAND COUNTY RECORDS.

BEARING REFERENCE

BEARINGS ARE BASED ON PROJECT COORDINATE SYSTEM:
MICHIGAN STATE PLANE COORDINATE SYSTEM, NAD83 (CONUS)
(MOL) (GRS80), SOUTH ZONE 2113, INTERNATIONAL FEET, GROUND
(LAT: 42°31'19.52" N, LONG: 83°13'28.62" W, ELEV: 728
SCALE FACTOR: 1.00010792).



INDEX OF DRAWINGS:

- C-0.0 COVER SHEET
- C-1.0 TOPOGRAPHIC & BOUNDARY SURVEY
- C-2.0 SITE DEMOLITION PLAN
- C-3.0 PROPOSED SITE PLAN
- C-4.0 PROPOSED GRADING PLAN
- C-5.0 PROPOSED UTILITY PLAN
- C-6.1 NOTES + DETAILS-1
- C-6.2 DETAILS-2
- C-6.3 DETAILS-3
- C-6.4 DETAILS-4
- C-7.0 SESC PLAN
- C-8.0 PROPOSED DRAINAGE PLAN

- | | |
|-------|--|
| A1.1 | GODDARD SCHOOL FLOOR PLANS |
| A1.1A | GODDARD ANNEX FLOOR PLANS |
| A2.1 | GODDARD SCHOOL EXTERIOR ELEVATIONS AND CROSS SECTION |
| A2.1A | GODDARD ANNEX EXTERIOR ELEVATIONS AND CROSS SECTION |

- | | |
|--------|-------------------|
| LS-1.0 | LANDSCAPE PLAN |
| LS-2.0 | LANDSCAPE DETAILS |
| LS-3.0 | SITE AMENITY PLAN |

- PH-1.0 SITE PHOTOMETRIC PLAN

- GSI-1.0 PLAYGROUND DETAILS – 1
- GSI-2.0 PLAYGROUND DETAILS – 2

STANDARD DETAILS

- | | |
|---|-----------------------------------|
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – SESC DETAILS (1 OF 1) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – SANITARY SEWER DETAILS (1 OF 2) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – SANITARY SEWER DETAILS (2 OF 2) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – STORM DETAILS (1 OF 1) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – WATER MAIN DETAILS (1 OF 7) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – WATER MAIN DETAILS (2 OF 7) |
| OAKLAND COUNTY WATER RESOURCES COMMISSIONER | – WATER MAIN DETAILS (3 OF 7) |

CONSTRUCTION PERMITS REQUIRED:

- VILLAGE OF BEVERLY HILLS – ENGINEERING/PLANNING APPROVAL
OAKLAND COUNTY WATER RESOURCES COMMISSIONER – SESC PERMIT
ROAD COMMISSION FOR OAKLAND COUNTY – RIGHT OF WAY PERMIT (SOUTHFIELD ROAD)
MDEQ – PUBLIC WATER MAIN PERMIT (FIRE HYDRANT)

DEVELOPER:

THE GODDARD SCHOOL OF BEVERLY HILLS
935 E SILVERBELL ROAD
LAKE ORION, MI 48360
PHONE: (248) 318-2007
CONTACT: MS. KELLIE MCDONALD
EMAIL: lakeorionmi@goddardschools.com

ARCHITECT:

HOBBS + BLACK ARCHITECTS
100 N STATE STREET
ANN ARBOR, MI 48104
PHONE: (734) 663-4189
CONTACT: BRIAN BAGNICK
EMAIL: bbagnick@hobbs-black.com

LANDSCAPE ARCHITECT:

FELINO A. PASCUAL + ASSOCIATES, RLA
24333 ORCHARD LAKE ROAD, STE G
FARMINGTON HILLS, MI 48336
PHONE: (248) 557-5588
CONTACT: FELINO PASCUAL (JOEL), RLA
EMAIL: felino@fpa.design

ENGINEER:

STOREY ENGINEERING GROUP, LLC
48264 MANCHESTER
MACOMB, MI 48044
PHONE: (586) 216-1043
CONTACT: TIM S. STOREY, PE
EMAIL: timsstorey@gmail.com

| | | No. | DATE | BY | DESCRIPTION | REVISIONS |
|---|-----|-----|------|------|-------------|-----------|
|  | | | | | | |
| CAUTION!! THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. | | | | | | |
| CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THE CONTRACTOR SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL. | | | | | | |
| 3 FULL WORKING DAYS BEFORE YOU DIG CALL <div style="display: flex; align-items: center; justify-content: center;"> <div style="font-size: 48pt; margin-right: 10px;">811</div> <div style="text-align: center;">  </div> </div> <p style="text-align: center;">Know what's below Call before you dig</p> <p style="text-align: center;">MISS DIG System, Inc.</p> <p style="text-align: center;">1-800-482-7171 www.missdig.net (TOLL FREE)</p> | | | | | | |
|  <p style="font-size: 24pt; margin: 0;">STOREY ENGINEERING GROUP, LLC</p> <p style="margin: 0;">48264 MANCHESTER SACBON, MI 48044</p> <p style="margin: 0;">(586) 216-1043</p> <p style="margin: 0;">www.storeyengineering.com</p> | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: 18pt; margin: 0;">THE GODDARD SCHOOL OF BEVERLY HILLS</p> <p style="margin: 0;">935 E SILVERBELL ROAD LAKE ARROW, MI 48860</p> </div> <div style="width: 10%; text-align: center;"> <p style="font-size: 18pt; margin: 0;">COVER SHEET</p> </div> <div style="width: 45%;"> <p style="font-size: 18pt; margin: 0;">THE GODDARD SCHOOL - BEVERLY HILLS</p> <p style="margin: 0;">31650 SOUTHFIELD ROAD TIN. RTOE, SE 1/4, SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI</p> </div> </div> | | | | | | |
| DES. | TSS | DN | TSS | SUR. | TSS | P.M. |
| <p>ORIGINAL ISSUE DATE: 7/1/2021</p> <p>Project No. 2021-008</p> <p>DRAWING NUMBER: C-0.0</p> | | | | | | |

LEGAL DESCRIPTION (AS PROVIDED)

(PER TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: 899970,
EFFECTIVE DATE: AUGUST 11, 2020)

EXHIBIT C DESCRIPTION:

LAND IN THE VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI,
DESCRIBED AS FOLLOWS:

LOT(S) 6, EXCEPT THEREFROM THE EAST 200 FEET OF THE SOUTH 56.66 FEET AND
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PLAT THEREOF RECORDED IN LIBER 65 OF PLATS, PAGE 11 OF OAKLAND COUNTY
RECORDS.

BEARING REFERENCE

BEARINGS ARE BASED ON PROJECT COORDINATE SYSTEM:
MICHIGAN STATE PLANE COORDINATE SYSTEM, NAD83 (CONUS)
(MOD) (GRS80), SOUTH ZONE 2113, INTERNATIONAL FEET, GROUND
(LAT: 42°31'19.52" N, LON: 83°13'28.62" W, ELEV: 728'
SCALE FACTOR: 1.00010792).

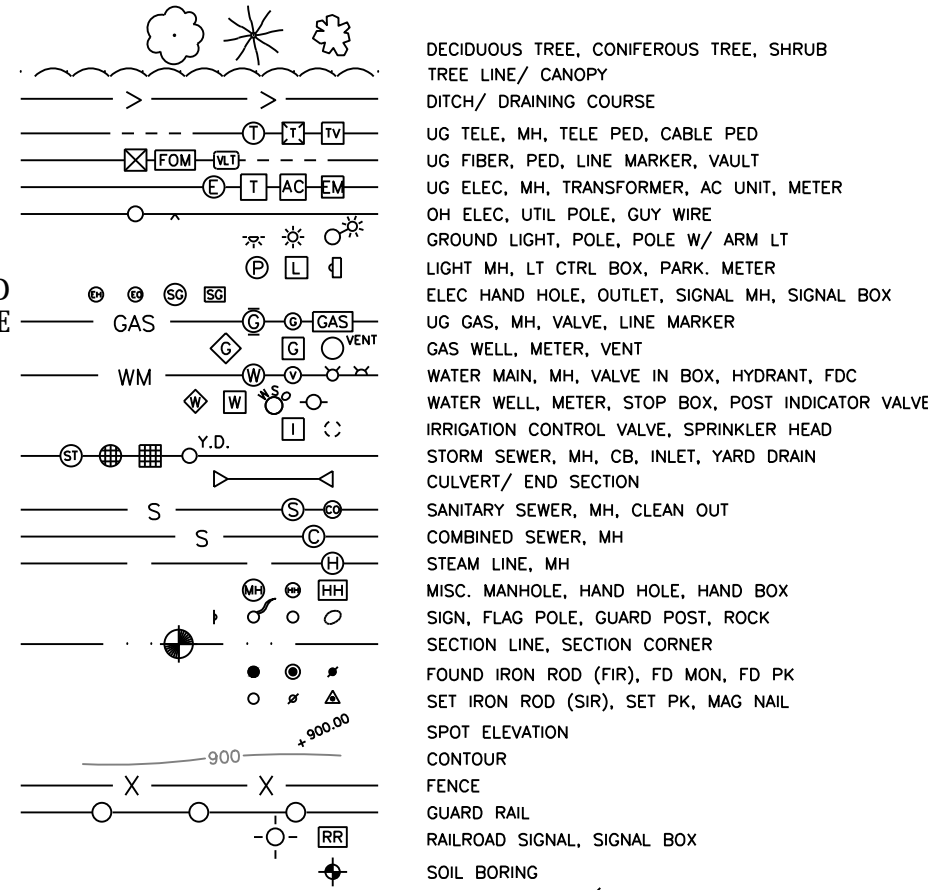
SURVEYOR'S OBSERVATIONS

AT THE TIME OF THIS SURVEY, EVIDENCE WAS OBSERVED OF
POTENTIAL ENCROACHMENTS. OTHER ENCROACHMENTS MAY OR
MAY NOT STILL EXIST ON OR OFF THE SUBJECT PROPERTY.

THE FOLLOWING OBSERVATIONS WERE MADE AT THE TIME
OF SURVEY:

- AN EXISTING WALL ALONG THE WEST LINE OF THE SUBJECT
PROPERTY APPEARS TO STRADDLE THE PROPERTY LINE.
- A WELL CROSSES THE SOUTH LINE OF THE PARCEL.
- AN ASPHALT RAMP THAT, BASED ON HISTORICAL IMAGERY,
WAS USED BY THE MCDONALDS THAT USED TO EXIST ON
THE SUBJECT PARCEL APPEARS TO ALLOW ACCESS TO THE
SUBJECT PARCEL FROM THE SOUTHERN ADJOINER.
- A SET OF CONCRETE STEPS ALLOWS ACCESS TO THE SITE
FROM THE SOUTHERN ADJOINER.

EXISTING LEGEND



BENCHMARKS

DATUM: NAVD88

BM A:
ABR/AV ON HYDRANT, 51± WEST OF CENTERLINE SOUTHFIELD ROAD & 49± NORTH FROM
CENTERLINE OF NORTH ACCESS DRIVE TO SUBJECT'S SITE.
ELEV = 727.57

BM B:
ABR/AV ON HYDRANT, 53± WEST OF CENTERLINE SOUTHFIELD ROAD & 29± SOUTH FROM
CENTERLINE OF THE SOUTH ADJOINER'S ACCESS DRIVE.
ELEV = 726.91

BM C:
GEO NAIL IN EAST FACE UTILITY POLE, 428± WEST OF CENTERLINE SOUTHFIELD ROAD & 100± NORTH
OF SUBJECT'S SOUTH PROPERTY LINE.
ELEV = 729.78

MISCELLANEOUS NOTES

- THERE IS DIRECT ACCESS TO THE SUBJECT PROPERTY VIA SOUTHFIELD ROAD, A PUBLIC
RIGHT-OF-WAY.
- THE PROPERTY SURVEYED AND SHOWN HEREON IS THE SAME PROPERTY DESCRIBED IN EXHIBIT
A OF TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: 899970, EFFECTIVE DATE: AUGUST 11, 2020.
- REFERENCE SURVEY BY: NOWAK & FRAUS ENGINEERS, JOB NO.: H831, DATED: 12/2/2013.

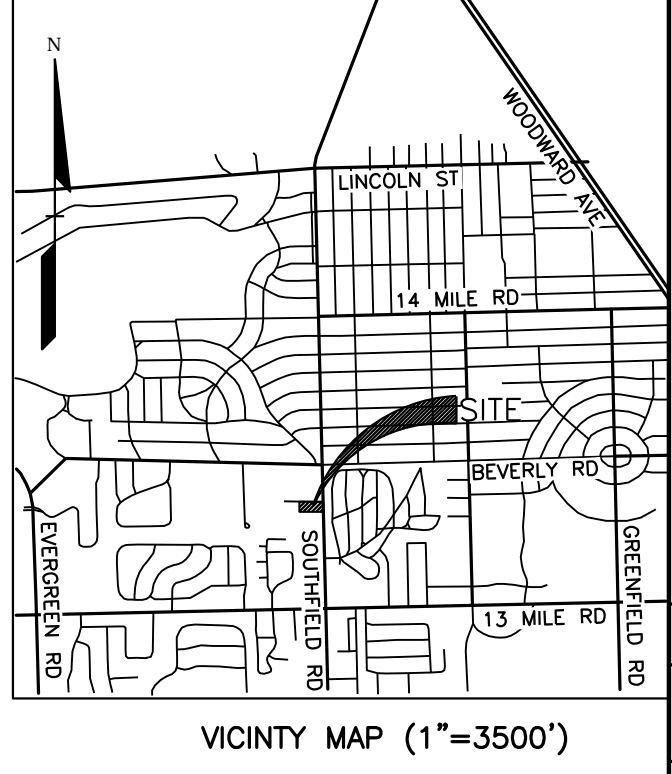
SCHEDULE B-SECTION II EXCEPTIONS

TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY
TITLE COMMITMENT NO: 899970
EFFECTIVE DATE: AUGUST 11, 2020

- Joint R/W in favor of The Detroit Edison Company and Michigan Bell
Telephone Company and the Covenants, Conditions and
Restrictions contained in instrument recorded in Liber 4341, page
975.
(PLOTTED AND SHOWN HEREIN)
- U.G.L. Permit in favor of The Detroit Edison Company and the
Covenants, Conditions and Restrictions contained in instrument
recorded in Liber 4440, page 327
(IT IS NOT ON, OR DOES NOT TOUCH, THE SURVEYED PROPERTY)
- Easement Agreement in favor of the Village of Beverly Hills and the
Covenants, Conditions and Restrictions contained in instrument
recorded in Liber 4889, page 192.
(PLOTTED AND SHOWN HEREIN)
- Covenants, conditions, restrictions and other provisions but
omitting restrictions, if any, based on race, color, religion, sex,
handicap, familial status or national origin as contained in
instrument recorded in Liber 5200, page 701.
(ZONING RECLASSIFICATION)
- Easement Agreement in favor of the Village of Beverly Hills and the
Covenants, Conditions and Restrictions contained in instrument
recorded in Liber 6081, page 127.
(PLOTTED AND SHOWN HEREIN)
- Easement Agreement in favor of the Board of Road Commissioners
of the County of Oakland and the Covenants, Conditions and
Restrictions contained in instrument recorded in Liber 6118, page
721.
(PLOTTED AND SHOWN HEREIN)
- Easement for Sidewalk in favor of the Village of Beverly Hills and the
Covenants, Conditions and Restrictions contained in instrument
recorded in Liber 11156, page 769.
(THE LOCATION CANNOT BE DETERMINED FROM THE RECORD
DOCUMENT)

| EX. STORM SEWER | | | |
|-----------------|-----------|---|--|
| STRUCTURE | RIM ELEV. | PIPES | |
| (25163) CBR | 724.11 | DEBR FILL SILT= 723.91 | |
| (25212) CBR | 727.01 | 12" S IE= 720.39 12" W IE= 722.04 12" E IE= 720.78 | |
| (25224) CBR | 725.17 | 12" W IE= 721.20 12" N IE= 721.44 | |
| (25270) CBS | 724.15 | 8" N IE= 723.25 12" S IE= 719.77 | |
| (25306) CBR | 724.27 | 1" WATER= 723.52 SILT= 722.02 | |
| (25454) CBR | 725.64 | 12" S IE= 721.63 | |
| (25507) CBR | 727.62 | 10" S IE= 724.43 | |
| (25540) CBR | 727.46 | 10" N IE= 723.93 12" E IE= 723.69 | |
| (25628) STMH | 728.43 | 18" SE IE= 719.63 15" N IE= 719.70 12" W IE= 720.26 | |
| (25641) CBB | 726.26 | NOT INVENTORED AT TIME OF SURVEY | |
| (25650) CBR | 724.87 | 18" NW IE= 719.23 18" S IE= 719.23 | |

| EX. SANITARY SEWER | | | |
|--------------------|-----------|--------------------------------------|--|
| STRUCTURE | RIM ELEV. | PIPES | |
| (25065) SAN | 724.91 | 10" W IE= 715.53 10" S IE= 715.48 | |
| (25269) SAN | 724.74 | 10" S IE= 714.51 10" N IE= 714.55 | |



REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
| | | | |
| | | | |
| | | | |
| | | | |

STATE OF MICHIGAN
TIM S. STOREY
ENGINEER
No. 43817
LICENSED PROFESSIONAL ENGINEER

CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING
UNDERGROUND UTILITIES AS SHOWN ON THIS
DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS
OFFERED BY THE ENGINEER AS TO THE COMPLETENESS OR
ACCURACY OF THE INFORMATION PROVIDED. THE USER OF
THIS DRAWING SHALL BE RESPONSIBLE FOR DETERMINING THE
EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE
START OF CONSTRUCTION.

CONSTRUCTION CONTRACTOR AGREES THAT IN
ACCORDANCE WITH GENERALLY ACCEPTED
CONSTRUCTION PRACTICES, CONSTRUCTION
CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE
AND COMPLETE RESPONSIBILITY FOR JOB SITE
CONDITIONS DURING THE COURSE OF CONSTRUCTION.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE
COMPLETENESS AND ACCURACY THEREOF. THE
ENGINEER'S OBLIGATION IS LIMITED TO THE
PROVISION OF INFORMATION AND DOES NOT EXTEND
TO NORMAL WORKING HOURS AND CONSTRUCTION
CONTRACTOR FURTHER AGREES TO DEFEND,
INDEMNIFY AND HOLD DESIGN PROFESSIONAL
HARMLESS FROM ANY AND ALL LIABILITY, REAL OR
ALLEGED, IN CONNECTION WITH THE PERFORMANCE
OF WORK ON THIS PROJECT EXCEPT LIABILITY
ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN
PROFESSIONAL.

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MACOMB, MI 48044
(586) 216-1043
www.storeyengineering.com

| THE GODDARD SCHOOL OF BEVERLY HILLS | TOPOGRAPHIC & BOUNDARY SURVEY | THE GODDARD SCHOOL - BEVERLY HILLS |
|---|--|--|
| 935 E SILVERBELL ROAD LAKE ORION, MI 48060 | 31655 SOUTHFIELD ROAD BEVERLY HILLS, MI 48004 | 31655 SOUTHFIELD ROAD BEVERLY HILLS, MI 48004 |
| DES. TSS | DN. TSS | SUR. TSS |
| DES. TSS | DN. TSS | SUR. TSS |
| DES. TSS | DN. TSS | SUR. TSS |

ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

SCALE: 1" = 20'

DRAWING NUMBER:
C-1.0

UTILITY/REFERENCE INFO

WM:
CONTACT: SE OAKLAND CO. WATER AUTHORITY
PHONE: BOB JACKOVICH
RECEIVED: 248-288-5150
N/A

WM/SAN/STORM:
CONTACT: BEVERLY HILLS VILLAGE
PHONE: THOMAS MESZLER
RECEIVED: 248-646-8404
N/A

GAS:
CONTACT: CONSUMERS ENERGY
PHONE: KURT GOULDING
RECEIVED: 517-374-2002
4/8/21

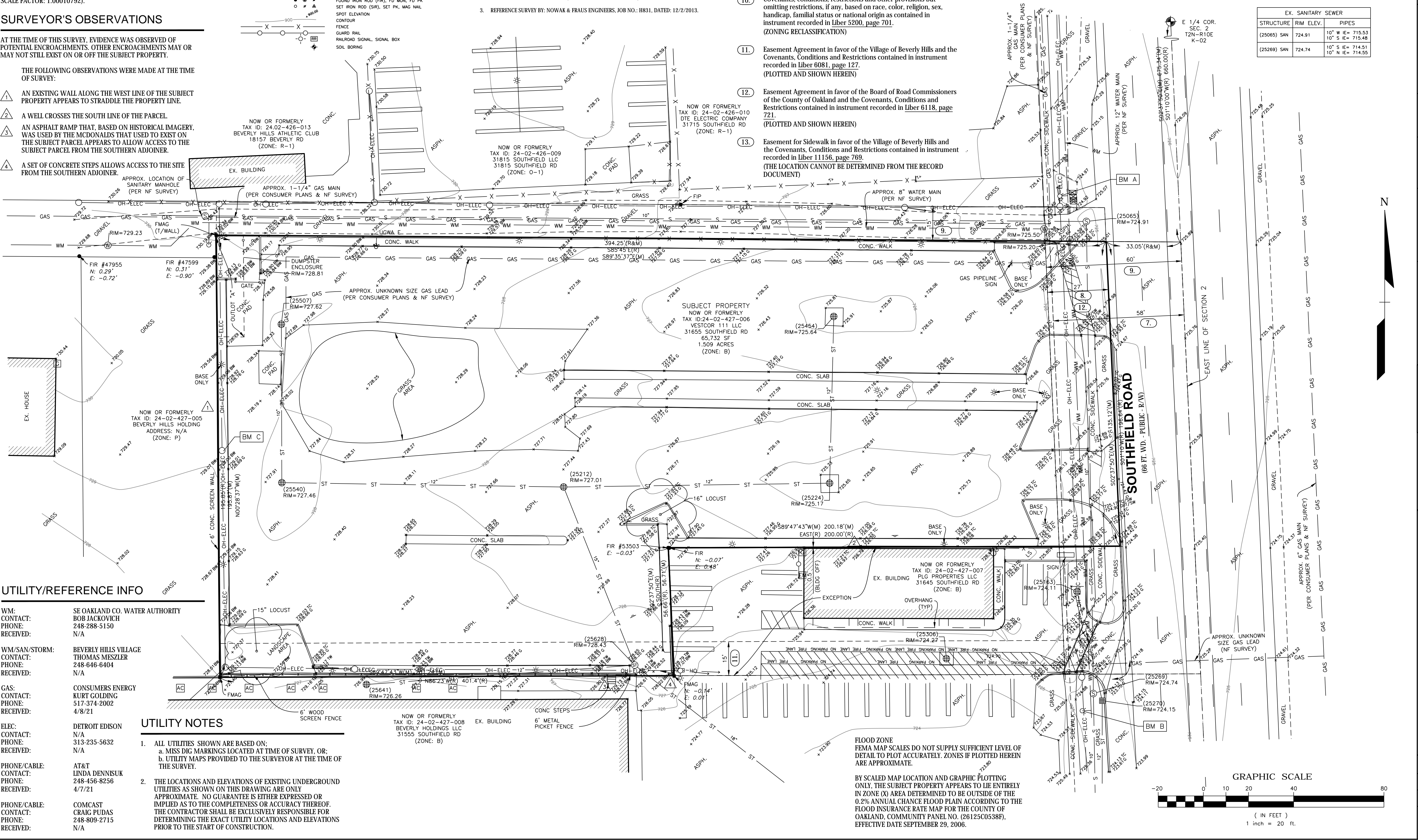
ELEC:
CONTACT: DETROIT EDISON
PHONE: N/A
RECEIVED: 313-235-5632
N/A

PHONE/CABLE:
CONTACT: AT&T
PHONE: LINDA DENNISUK
RECEIVED: 248-456-8256
4/7/21

PHONE/CABLE:
CONTACT: COMCAST
PHONE: CRAIG PUDAS
RECEIVED: 248-809-2715
N/A

UTILITY NOTES

- ALL UTILITIES SHOWN ARE BASED ON:
a. MISS DIG MARKINGS LOCATED AT TIME OF SURVEY, OR;
b. UTILITY MAPS PROVIDED TO THE SURVEYOR AT THE TIME OF
THE SURVEY.
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THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR
DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS
PRIOR TO THE START OF CONSTRUCTION.



LEGAL DESCRIPTION (AS PROVIDED)

(PER TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: 899970,
EFFECTIVE DATE: AUGUST 11, 2020)

EXHIBIT C DESCRIPTION:

LAND IN THE VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI,
DESCRIBED AS FOLLOWS:

LOT(s) 6, EXCEPT THEREFROM THE EAST 200 FEET OF THE SOUTH 56.66 FEET AND
ALL OF OUT LOT A OF SUPERVISOR'S PLAT OF GOULD COURT ACCORDING TO THE
PLAT THEREOF RECORDED IN LIBER 65 OF PLATS, PAGE 11 OF OAKLAND COUNTY
RECORDS.

BEARING REFERENCE

BEARINGS ARE BASED ON PROJECT COORDINATE SYSTEM:
MICHIGAN STATE PLANE COORDINATE SYSTEM, NAD83 (CONUS)
(MOD) (GRS80), SOUTH ZONE 2113, INTERNATIONAL FEET, GROUND
(LAT: 42°31'19.52" N, LONG 83°13'28.62" W, ELEV: 728
SCALE FACTOR: 1.00010792).

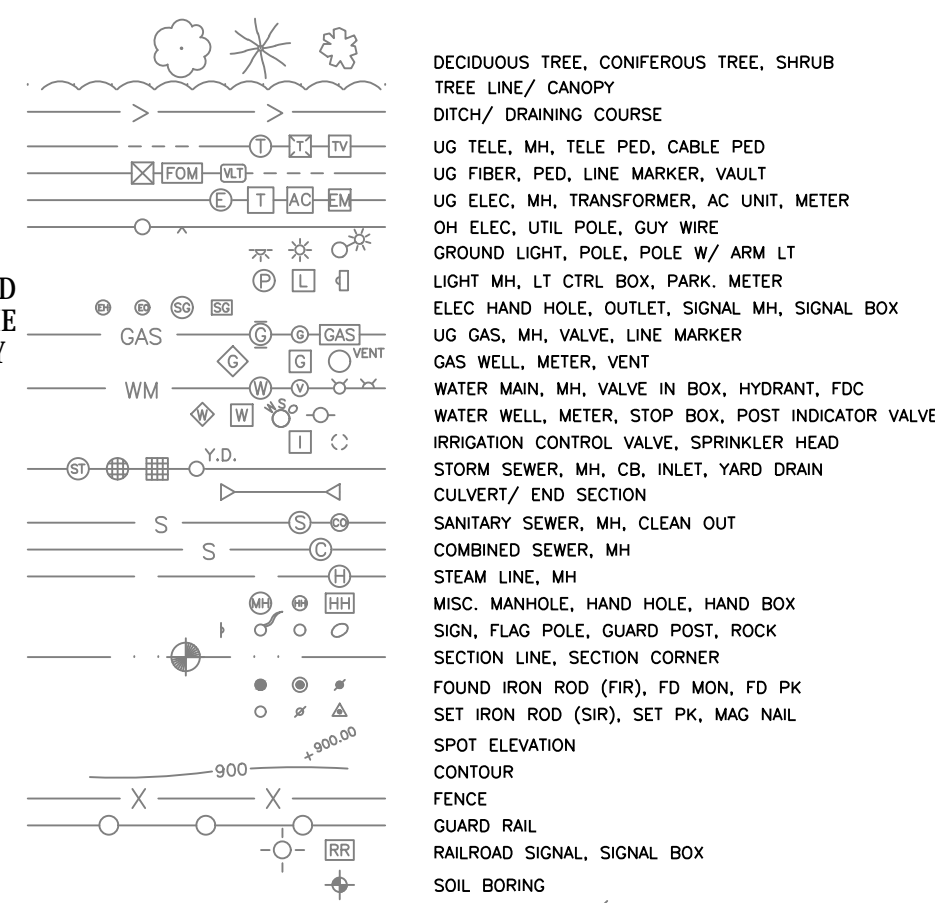
SURVEYOR'S OBSERVATIONS

AT THE TIME OF THIS SURVEY, EVIDENCE WAS OBSERVED OF
POTENTIAL ENCROACHMENTS. OTHER ENCROACHMENTS MAY OR
MAY NOT STILL EXIST ON OR OFF THE SUBJECT PROPERTY.

THE FOLLOWING OBSERVATIONS WERE MADE AT THE TIME
OF SURVEY:

- AN EXISTING WALL ALONG THE WEST LINE OF THE SUBJECT
PROPERTY APPEARS TO STRADDLE THE PROPERTY LINE.
- A WELL CROSSES THE SOUTH LINE OF THE PARCEL.
- AN ASPHALT RAMP THAT, BASED ON HISTORICAL IMAGERY,
WAS USED BY THE MCDONALDS THAT USED TO EXIST ON
THE SUBJECT PARCEL APPEARS TO ALLOW ACCESS TO THE
SUBJECT PARCEL FROM THE SOUTHERN ADJOINER.
- A SET OF CONCRETE STEPS ALLOWS ACCESS TO THE SITE
FROM THE SOUTHERN ADJOINER.

EXISTING LEGEND



BENCHMARKS

DATUM: NAVD88

BM A:
ABRACON HYDRANT, 51± WEST OF CENTERLINE SOUTHFIELD ROAD & 49± NORTH FROM
CENTERLINE OF NORTH ACCESS DRIVE TO SUBJECT SITE.
ELEV = 727.57

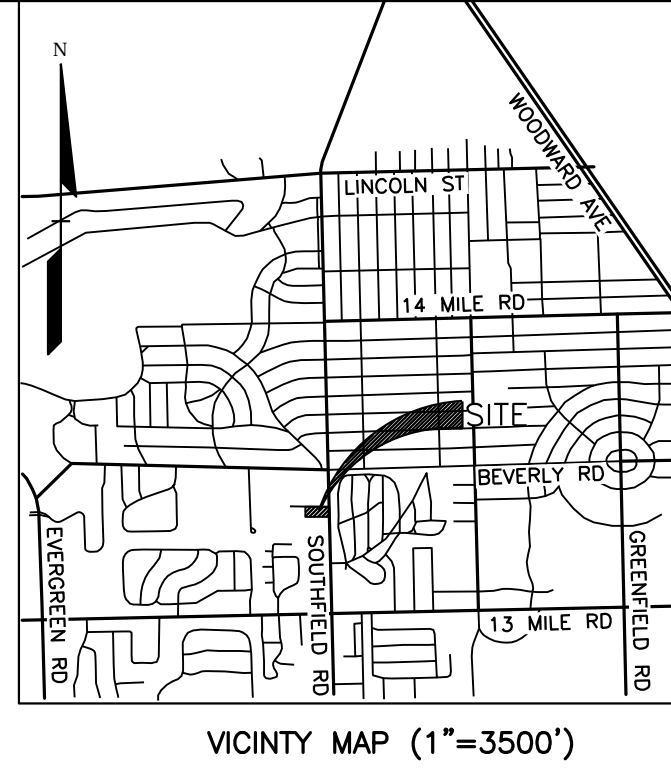
BM B:
ABRACON HYDRANT, 53± WEST OF CENTERLINE SOUTHFIELD ROAD & 29± SOUTH FROM
CENTERLINE OF THE SOUTH ADJOINER'S ACCESS DRIVE.
ELEV = 726.91

BM C:
GOD NAIL IN EAST FACE UTILITY POLE, 428± WEST OF CENTERLINE SOUTHFIELD ROAD & 100± NORTH
OF SUBJECT'S SOUTH PROPERTY LINE.
ELEV = 729.78

MISCELLANEOUS NOTES

- THERE IS DIRECT ACCESS TO THE SUBJECT PROPERTY VIA SOUTHFIELD ROAD, A PUBLIC
RIGHT-OF-WAY.
- THE PROPERTY SURVEYED AND SHOWN HEREON IS THE SAME PROPERTY DESCRIBED IN EXHIBIT
A OF TITLE AGENCY: FIDELITY NATIONAL TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: A0765944, EFFECTIVE DATE: FEBRUARY 4, 2021.
- REFERENCE SURVEY BY: NOWAK & FRAUS ENGINEERS, JOB NO.: H831, DATED: 12/2/2013.

| EX. STORM SEWER | | |
|-----------------|-----------|--|
| STRUCTURE | RIM ELEV. | PIPES |
| (25163) CBR | 724.11 | DEBR FILL SILT= 723.91 |
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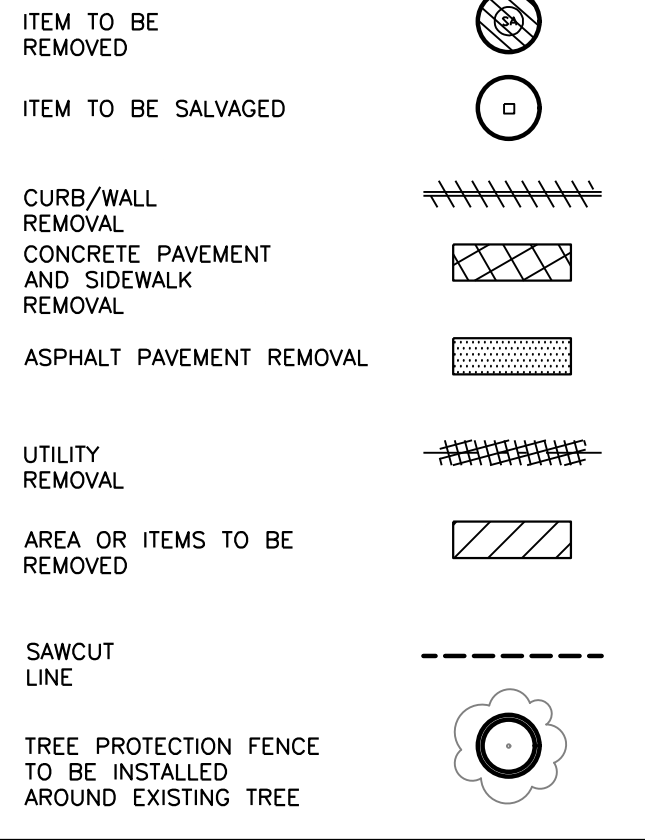


| EX. SANITARY SEWER | | |
|--------------------|-----------|------------------------------------|
| STRUCTURE | RIM ELEV. | PIPES |
| (25065) SAN | 724.91 | 10" W E= 715.53 10" S E= 715.48 |
| (25269) SAN | 724.74 | 10" S E= 714.51 10" N E= 714.55 |

ADDITIONAL NOTES:

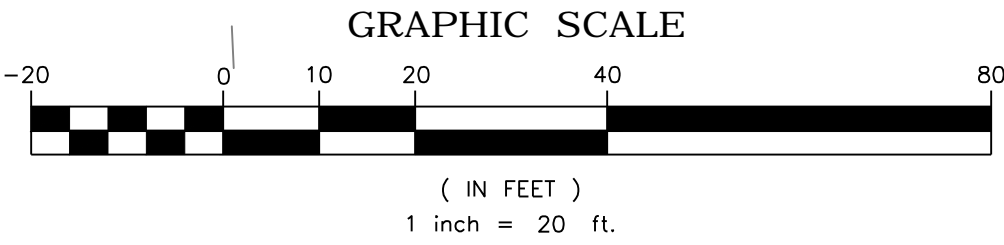
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON SITE DURING ALL DEMOLITION
WORK.
- CONTRACTOR SHALL BACKFILL ALL EXCAVATIONS AND TRENCHES WITH VILLAGE
APPROVED MATERIAL PRIOR TO THE END OF THE WORKING DAY.
- CONTRACTOR SHALL OBTAIN DEMOLITION PERMIT FROM BUILDING DEPARTMENT PRIOR TO
WORK, IF REQUIRED.

DEMOLITION LEGEND:



GENERAL DEMOLITION NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:
- ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR
NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF
OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE
ALLOWED.
 - ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES.
 - STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED
WITH THE OWNER AND THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
 - SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO
THE GENERAL SCOPE OF THE WORK, IT IS THE INTENT THAT THESE ITEMS SHALL
BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND,
UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE
BUT NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT
SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT
WILL BE REQUIRED.
 - REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE
DEMOLITION PLAN. THIS INCLUDES UNDERGROUND UTILITIES, CONCRETE, ASPHALT,
TREES ETC.
 - THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING
AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15' OF CONSTRUCTION
ACTIVITIES AND AS INDICATED IN THE PLANS OR PER LOCAL AGENCY
REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST
CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH
THE LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE,
MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK
ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND THE
MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
 - THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF
SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS NECESSARY TO FACILITATE
CONSTRUCTION. SIGNS SHALL BE PROTECTED AND STOCKPILED FOR REUSE AS
SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE
CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO
ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION 3 BUSINESS
DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.



UTILITY/REFERENCE INFO

WM:
CONTACT: SE OAKLAND CO. WATER AUTHORITY
PHONE: BOB JACKOVICH
RECEIVED: 248-288-5150
N/A

WM/SAN/STORM:
CONTACT: BEVERLY HILLS VILLAGE
PHONE: THOMAS MESZLER
RECEIVED: 248-646-6404
N/A

GAS:
CONTACT: CONSUMERS ENERGY
PHONE: KURT GOULDING
RECEIVED: 517-374-2002
4/8/21

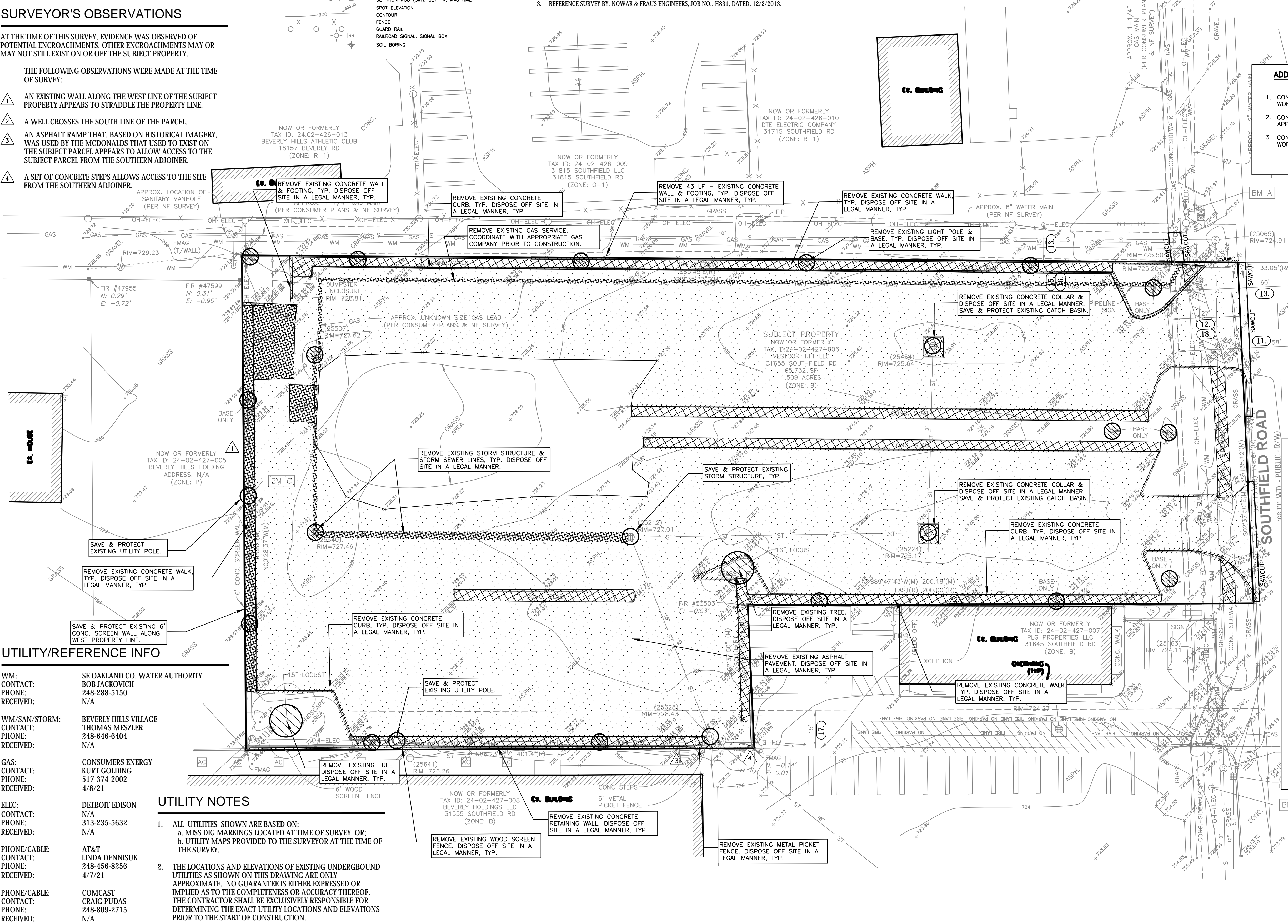
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PHONE/CABLE:
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PHONE: LINDA DENNISUK
RECEIVED: 248-456-8256
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CONTACT: COMCAST
PHONE: CRAIG PUDAS
RECEIVED: 248-809-2715
N/A

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| REVISIONS | | | |
|-----------|------|----|-------------|
| NO. | DATE | BY | DESCRIPTION |
| | | | |
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CAUTION!!
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CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE
AND COMPLETE RESPONSIBILITY FOR JOB SITE
CONDITIONS DURING THE COURSE OF CONSTRUCTION,
OTHER THAN THOSE EXPRESSLY SHOWN ON THE PLANS
AND PROPERTY THAT THE REQUIREMENT SHALL BE
MADE TO THE CONTRACTOR AND NOT BE LIMITED
TO NORMAL WORKING HOURS AND CONSTRUCTION
CONTRACTOR FOR FURTHER AGREES TO DEFEND,
INDEMNIFY AND HOLD DESIGN PROFESSIONAL,
HARBORERS FROM ANY AND ALL LIABILITY, REAL OR
ALLEGED, IN CONNECTION WITH THE PERFORMANCE
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MACOMB, MI 48044
(586) 216-1043
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| THE GODDARD SCHOOL OF BEVERLY HILLS | | | | THE GODDARD SCHOOL - BEVERLY HILLS | | | |
|---|-----|-----|-----|---|-----|------|-----|
| 935 S SILVERBELL ROAD LAKE ORION, MI 48060 | | | | 31655 SOUTHFIELD ROAD VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI | | | |
| DES. | TSS | DN. | TSS | SUR. | TSS | P.M. | TSS |
| | | | | | | | |

ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

SCALE: 1" = 20'

DRAWING NUMBER:
C-2.0

LEGEND

EXISTING

PROPOSED

DECIDUOUS TREE, CONIFEROUS TREE, SHRUB
TREE LINE/ CANOPY
DITCH/ DRAINAGE COURSE
UG TELE, MH, TELE PED, CABLE PED
UG FIBER, PED, LINE MARKER, VAULT
UG ELEC, MH, TRANSFORMER, AC UNIT, METER
OH ELEC, UTI, POLE, GUY WIRE
GROUND LIGHT, POLE, POLE W/ ARM LT
LIGHT MH, LT CTRL BOX, PH, BOOTH, PARK, METER
ELEC HAND HOLE, OUTLET, SIGNAL MH, SIGNAL BOX
UG GAS, MH, VALVE, LINE MARKER
GAS WELL, METER, VENT
WATER MAIN, MH, VALVE IN BOX, HYDRANT, FDC
WATER WELL, METER, STOP BOX, POST INDICATOR VALVE
IRRIGATION CONTROL, VALVE, SPRINKLER HEAD
STORM SEWER, MH, CB, INLET, YARD DRAIN
CULVERT/ END SECTION
SANITARY SEWER, MH, CLEAN OUT
COMBINED SEWER, MH
STEAM LINE, MH
MISC. MANHOLE, HAND HOLE, HAND BOX
SIGN, FLAG POLE, GUARD POST, ROCK
SECTION LINE, SECTION CORNER
SURVEY CONTROL POINT, BENCHMARK
FOUND IRON ROD (FIR), FD MON, FD PK
SET IRON ROD (SIR), SET PK, MAG NAIL
SPOT ELEVATION
CONTOUR
FENCE
GUARD RAIL
RAILROAD SIGNAL, SIGNAL BOX
ROW MARKER
SOIL BORING
CONCRETE PAVEMENT
ASPHALT PAVEMENT

STANDARD DUTY
HEAVY DUTY

LEGAL DESCRIPTION (AS PROVIDED)

(PER TITLE AGENCY: FIRST AMERICAN TITLE INSURANCE COMPANY,
TITLE COMMITMENT NO: 899970,
EFFECTIVE DATE: AUGUST 11, 2020)

EXHIBIT C DESCRIPTION:

LAND IN THE VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI,
DESCRIBED AS FOLLOWS:

LOT(S) 6, EXCEPT THEREFROM THE EAST 200 FEET OF THE SOUTH 56.66 FEET AND
ALL OF OUT LOT A OF SUPERVISOR'S PLAT OF GOULD COURT ACCORDING TO THE
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RECORDS.

BEARING REFERENCE

BEARINGS ARE BASED ON PROJECT COORDINATE SYSTEM:
MICHIGAN STATE PLANE COORDINATE SYSTEM, NAD83 (CONUS)
(MOL) (GRS80), SOUTH ZONE 2113, INTERNATIONAL FEET, GROUND
(LAT: 42°31'19.52" N, LONG: 83°13'28.62" W, ELEV: 728)
SCALE FACTOR: 1.00010792.

SIDEWALK RAMP LEGEND:

SIDEWALK RAMP MDOT 'TYPE R'

SIDEWALK RAMP MDOT 'TYPE P'

SIDEWALK RAMP MDOT 'TYPE D'

REFER TO SHEET C-6.4 FOR
SIDEWALK RAMP DETAILS

SIGN LEGEND:

'BARRIER FREE PARKING' SIGN (3 EA.)

'CROSSWALK' SIGN (5 EA.)

'NO PARKING FIRE LANE' SIGN (9 EA.)

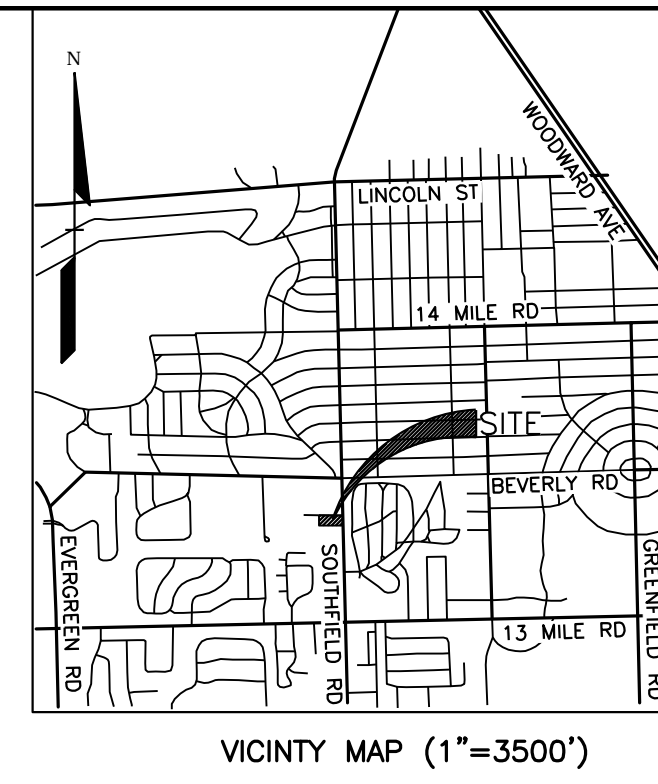
REFER TO SHEET C-6.1 FOR SIGN DETAILS.
ALL TRAFFIC SIGNAGE SHALL COMPLY WITH
THE CURRENT MUTCD STANDARDS.

EX. STORM SEWER

| STRUCTURE | RIM ELEV. | PIPES |
|--------------|-----------|--|
| (25163) CBR | 724.11 | DEBR FILLED 36" S I.E. = 720.39 12" W I.E. = 722.04 12" E I.E. = 720.78 |
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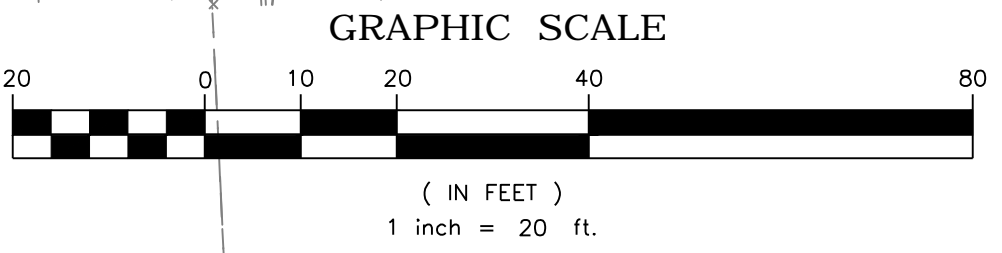
EX. SANITARY SEWER

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| (25269) SAN | 724.74 | 10" S I.E. = 714.51 10" N I.E. = 714.55 |



SITE INFORMATION:

- The zoning classification of the property is B-Business. However, the property is also located within the Village Center Overlay District. The proposed use is a Daycare Center, the use is allowed under the current zoning.
- All exterior lighting shall be fully shielded and directed downward to prevent off-site glare and shall be compatible with the architecture of the building. Intensity of light within site shall not exceed 10 foot candles or 1 foot candle at the property line. Max pole height shall be 14 feet measured from finished grade.
- Any signs shall meet the requirements of the Zoning Ordinance for the Village of Beverly Hills. Separate permits are required for sign installation and shall be applied for separately.
- All roof and ground mounted mechanical equipment shall be screened from adjacent roads and properties.
- Both buildings shall be provided with an automatic fire sprinkler system, and shall be designed and installed in accordance with current NFPA requirements.
- Fire lanes shall be designated by the Fire Code Official, and shall be conspicuously posted on both sides of the fire lane, with fire lane signs spaced not more than 100 feet apart, and in conformance with the MMUTCD.
- Hours of operation will be between 6:30am and 6:30pm Monday thru Friday and will be closed on weekends. Activity within the outdoor play area shall be limited to between the hours of 7am and 6pm. Total Proposed Daycare Building Area = 16,422 sq. ft. NET USABLE AREA = 13,138 sq. ft. (80% of Gross Floor Area) Total Proposed Retail/Commercial Building Area = 4,902 sq. ft. NET USABLE AREA = 3,922 sq. ft. (80% of Gross Floor Area) Total Day Care Building Footprint = 8,211.5 sq. ft. Total Retail/Commercial Building Footprint = 2,406 sq. ft. Total Footprint covered by all buildings = 10,617.5 sq. ft. Total Gross Building Floor Area = 16,422 sq. ft. + 4,902 sq. ft. = 21,324 sq. ft.
- Maximum allowable Building height is 30'. Maximum proposed Building height is 30.0'.
- Total Gross Site Area = 65,732.7 sq. ft. = 1.51 acres Total Net Site Area = 62,080.5 sq. ft. = 1.43 acres
- Required Public Open Space = 5% of the gross floor area of all building floors = (0.05) x 21,324 = 1,066.2 sq. ft. Public Open Space provided = 2,290 sq. ft. = 10.7%
- Proposed lot coverage by all buildings is 17.1%.
- All pedestrian walkways and required egress doors shall comply with Michigan Barrier Free Design criteria.
- Proposed maximum number of children = 200
- Parking Required (per Village Ordinance): Childcare = 2 spaces + 1 space/8 children = 2 + 200/8 = 27 spaces; Retail/Commercial Use = 1 space/250 sq. ft. of useable floor area = (4,902 x 0.80)/250 = 16 spaces. Total parking required = 27 + 16 = 43 spaces.
- Parking Provided:
6 - 8' x 23' Parallel Spaces
15 - 9' x 19' spaces (no overhang)
33 - 9' x 19' Spaces (17' w/2' overhang over greenbelt/sidewalk)
3 - 8' x 19' Barrier Free Spaces (17' w/2' overhang over sidewalk)
57 Total Parking Spaces provided
- Outdoor Play Area Required (per Village Ordinance)
Requirement = 150 sq. ft. per child
200 children x 150 sq. ft. = 30,000 sq. ft. Outdoor Play Area Required
Outdoor Play Area Provided = 10,240 sq. ft.
Therefore a variance for 19,760 sq. ft. is required.
(State of Michigan Requires only a total of 1,200 sq. ft. of play area)
- Storm Water Management: The site is a redevelopment of an existing site that already has a storm sewer system. The existing system will be re-used. However, a new water quality structure will be added. No detention is proposed.
- Required setbacks (per Village Ordinance):
Front Building Setback = 35 feet (Village Overlay allows zero lot line)
Side Yard Building Setback (north) = 15 feet
Side Yard Building Setback (south) = (Village Overlay allows zero lot line)
Rear Building Setback = 20 feet
- A "KNOX" key box shall be installed in a location approved by the fire code official.
- Locations of all ground signs are indicated on this plan.
- Open burning is not permitted including the burning of trash, debris or land clearing materials.



REVISIONS

| NO. | DATE | BY | DESCRIPTION |
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CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS GIVEN BY THE ENGINEER AS TO THE ACCURACY OF THE INFORMATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

STATE OF MICHIGAN
TIM S. STOREY
ENGINEER
No. 43817
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COMPLETENESS OF ACCURACY THEREOF. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

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THE GODDARD SCHOOL OF BEVERLY HILLS
935 E SILVERBELL ROAD
LAKE UNION, MI 48360

PROPOSED SITE PLAN
THE GODDARD SCHOOL - BEVERLY HILLS
TIN RIVE, SE 1/4 SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI

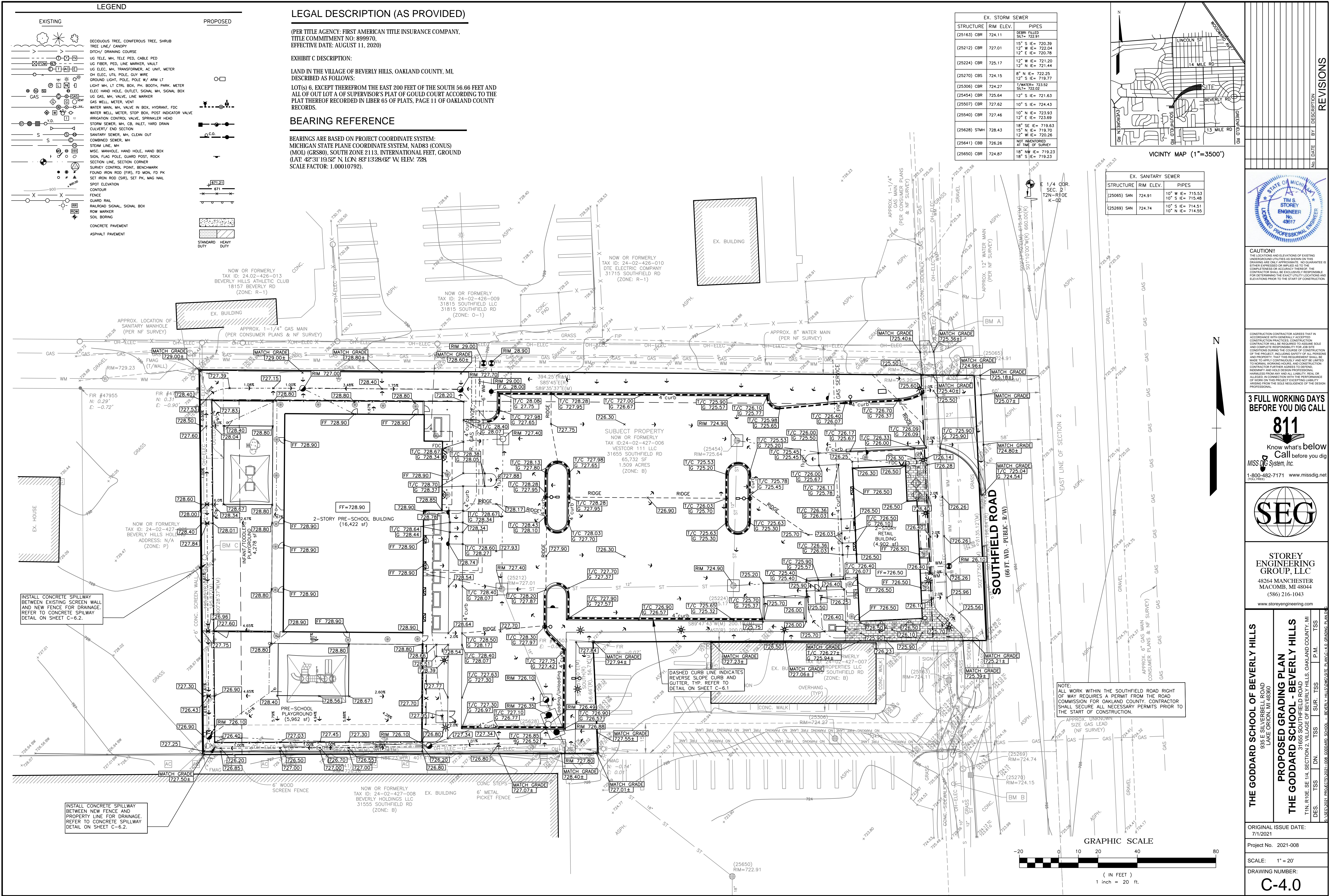
DES. TSS DN. TSS SUR. TSS P.M. TSS

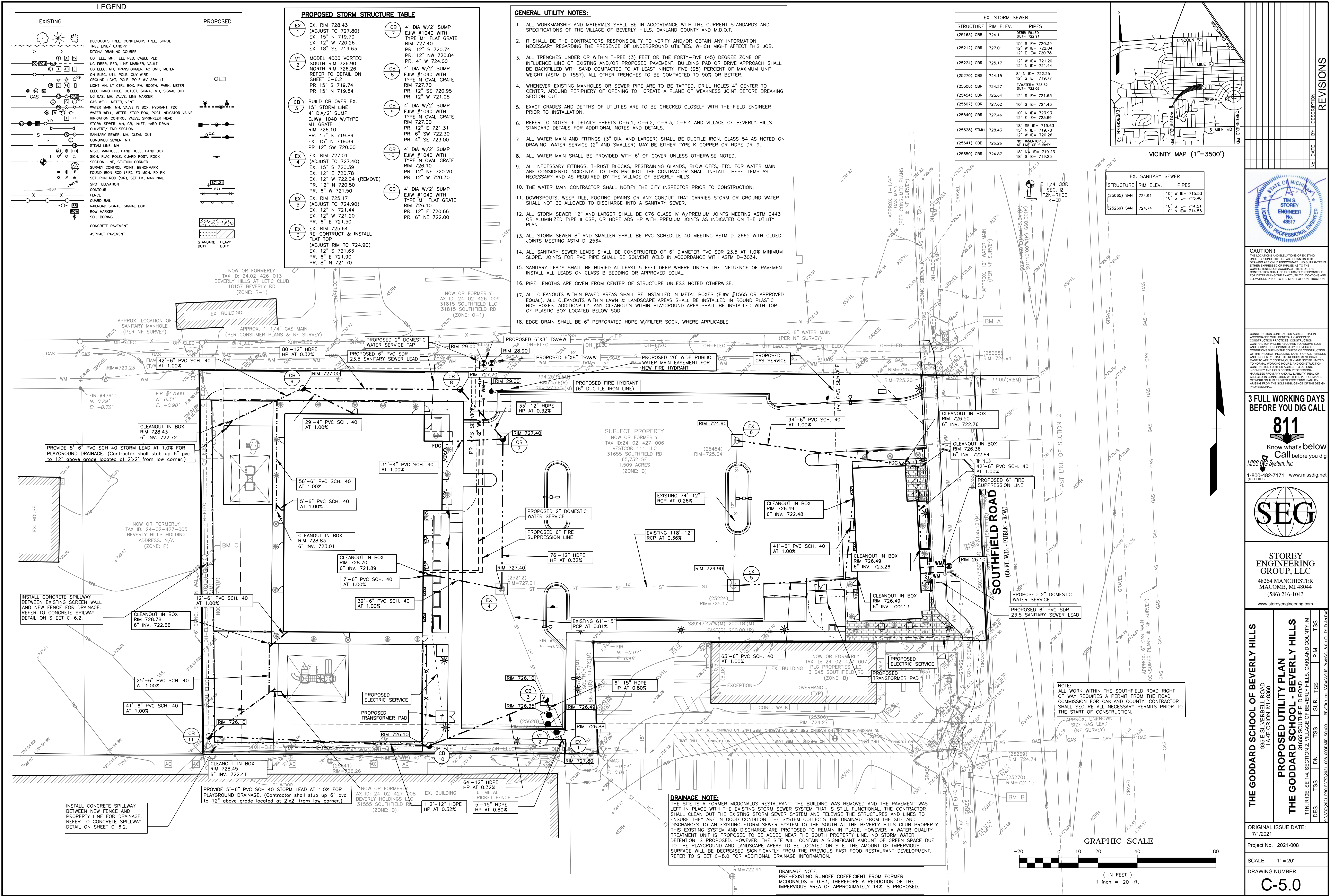
ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

SCALE: 1" = 20'

DRAWING NUMBER:
C-3.0





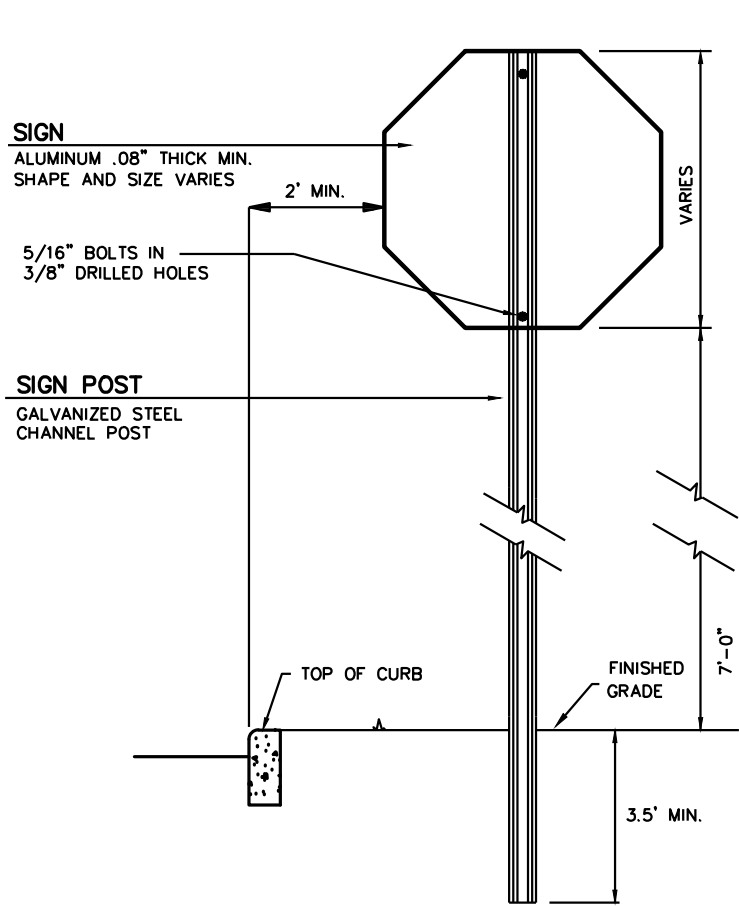
- GENERAL NOTES:
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF BEVERLY HILLS & OAKLAND COUNTY WATER RESOURCE COMMISSION.
 2. ALL NECESSARY PERMITS, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL MUNICIPAL INSPECTION FEES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING THE PERIODS OF CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE JOB.
 4. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG (1-800-482-7171) TO VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND SHALL NOTIFY OTHER REPRESENTATIVES OF OTHER UTILITIES IN THE VICINITY OF THE WORK.
 5. ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
 6. MANHOLE, CATCH BASIN, GATE VALVES AND HYDRANT FINISH GRADES MUST BE CLOSELY CHECKED AND APPROVED BY THE ENGINEER BEFORE THE CONTRACTOR'S WORK IS CONSIDERED COMPLETE.
 7. CONTRACTOR SHALL REMOVE AND DISPOSE OF OFF-SITE ANY TREES, BRUSH, STUMPS, TRASH OR OTHER UNWANTED DEBRIS AT THE OWNER'S DIRECTION, INCLUDING OLD BUILDING FOUNDATIONS AND FLOORS. BURNING OF TRASH, STUMPS OR OTHER DEBRIS SHALL NOT BE PERMITTED.
 8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY CONTAIN TRAFFIC IN ACCORDANCE WITH "MMUTCD".
 9. ALL EXCAVATIONS SHALL BE SLOPED, SHORED OR BRACED IN ACCORDANCE WITH MI-OSHA REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATELY CONSTRUCTED AND BRACED SHORING SYSTEM FOR EMPLOYEES WORKING IN AN EXCAVATION THAT MAY EXPOSE EMPLOYEES TO THE DANGER OF MOVING GROUND.
 10. ALL REFERENCES TO M.D.O.T. SPECIFICATIONS ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MDO STANDARD SPECIFICATIONS FOR CONSTRUCTION.

- PAVING NOTES:
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF BEVERLY HILLS.
 2. IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.
 3. SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL, IN FILL SECTIONS OR BELOW SUBGRADE IN CUT SECTIONS, WILL BE CLASSIFIED AS SUBGRADE UNDERCUTTING.
 4. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED WITH SAND OR OTHER SIMILAR APPROVED MATERIAL. BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM UNIT WEIGHT (PER ASTM D-1557) UNLESS OTHERWISE SPECIFIED.
 5. BACKFILL UNDER PAVED AREAS SHALL BE AS SPECIFIED ON DETAILS.
 6. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

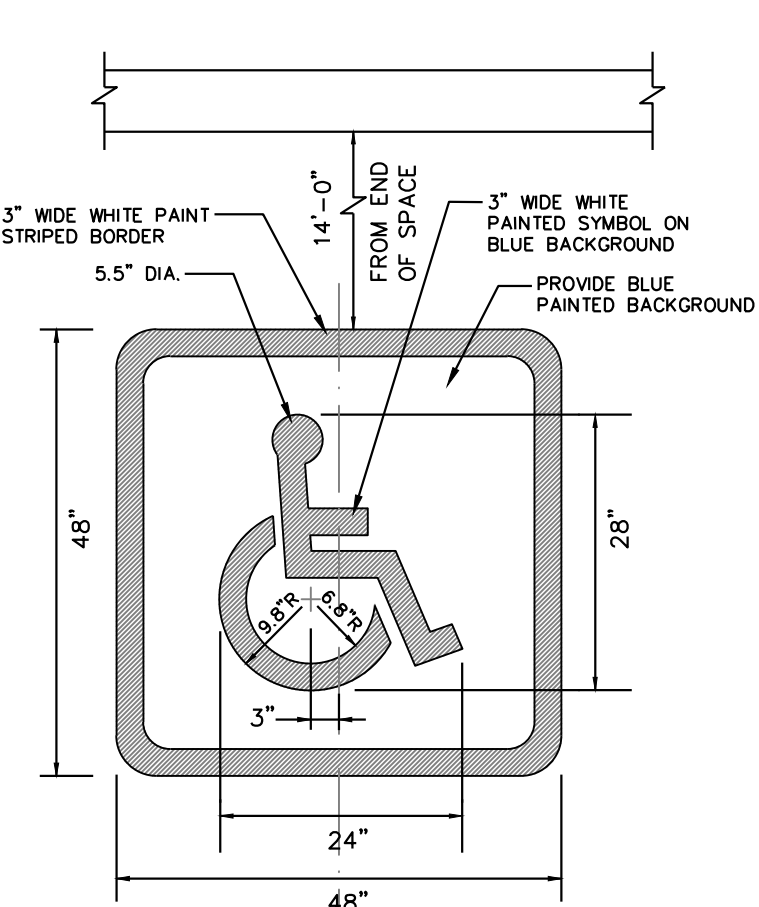
- GENERAL UTILITY NOTES:
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF BEVERLY HILLS AND M.D.O.T.
 2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES, WHICH MIGHT AFFECT THIS JOB.
 3. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.
 4. WHENEVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT.
 5. EXACT GRADES AND DEPTHS OF UTILITIES ARE TO BE CHECKED CLOSELY WITH THE FIELD ENGINEER PRIOR TO INSTALLATION.

- STORM SEWER NOTES:
1. ALL STORM SEWER SHALL BE INSTALLED ON STANDARD BEDDING OR BETTER.
 2. JOINTS FOR ALL STORM SEWER 12" AND LARGER SHALL BE PREMIUM JOINT TONGUE AND GROOVE WITH RUBBER GASKETS, UNLESS SPECIFIED OTHERWISE.
 3. ALL STORM SEWER 12" AND LARGER SHALL BE RCP CLASS IV, ALUMINIZED CSP OR HDPE N-12 HP, UNLESS OTHERWISE NOTED.
 4. CULVERTS SHALL BE ALUMINIZED TYPE II CSP WITH BANDED JOINTS MEETING MANUFACTURERS SPECS.
 5. STORM LEADS 6" & SMALLER SHALL BE PVC SCH 40 WITH GLUED JOINTS BEDDED ON SAND OR STONE AGGREGATE. (8" LEADS SHALL BE PVC SDR-26).
 6. REFER TO THE OCWRC STANDARD DETAILS FOR WATER MAIN CONSTRUCTION FOR ADDITIONAL INFORMATION.

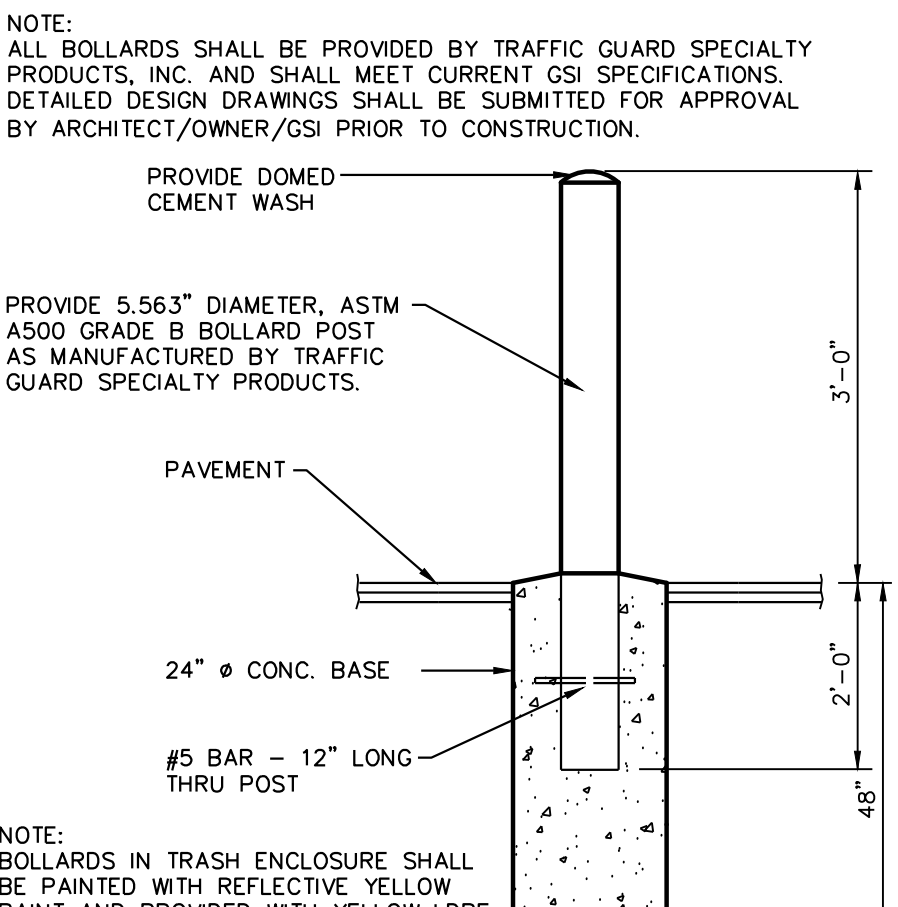
- WATER MAIN NOTES:
1. ALL WATER MAIN SHALL BE INSTALLED WITH A MINIMUM COVER OF 6.0' BELOW FINISH GRADE. WHEN WATER MAINS MUST DIP TO PASS UNDER A STORM SEWER OR SANITARY SEWER, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH BY THE USE OF VERTICAL TWENTY TWO AND A HALF (22.5) DEGREE BENDS, PROPERLY ANCHORED.
 2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF BEVERLY HILLS.
 3. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO 90% OR BETTER.
 4. ALL TEE'S, BENDS, CONNECTIONS, ETC. ARE CONSIDERED INCIDENTAL TO THE JOB.
 5. PHYSICAL CONNECTIONS SHALL NOT BE MADE BETWEEN EXISTING AND NEW WATER MAINS UNTIL TESTING IS SATISFACTORILY COMPLETED.
 6. MAINTAIN 10' HORIZONTAL CLEARANCE BETWEEN OUTER EDGE OF WATERMAIN AND ANY SANITARY SEWER OR STRUCTURE.
 7. ALL WATER MAIN SHALL BE DUCTILE IRON CLASS 54 WITH POLYETHYLENE WRAP (IF REQUIRED BY THE VILLAGE OF BEVERLY HILLS OR OCWRC).
 8. REFER TO THE OCWRC STANDARD DETAILS FOR WATER MAIN CONSTRUCTION FOR ADDITIONAL INFORMATION.



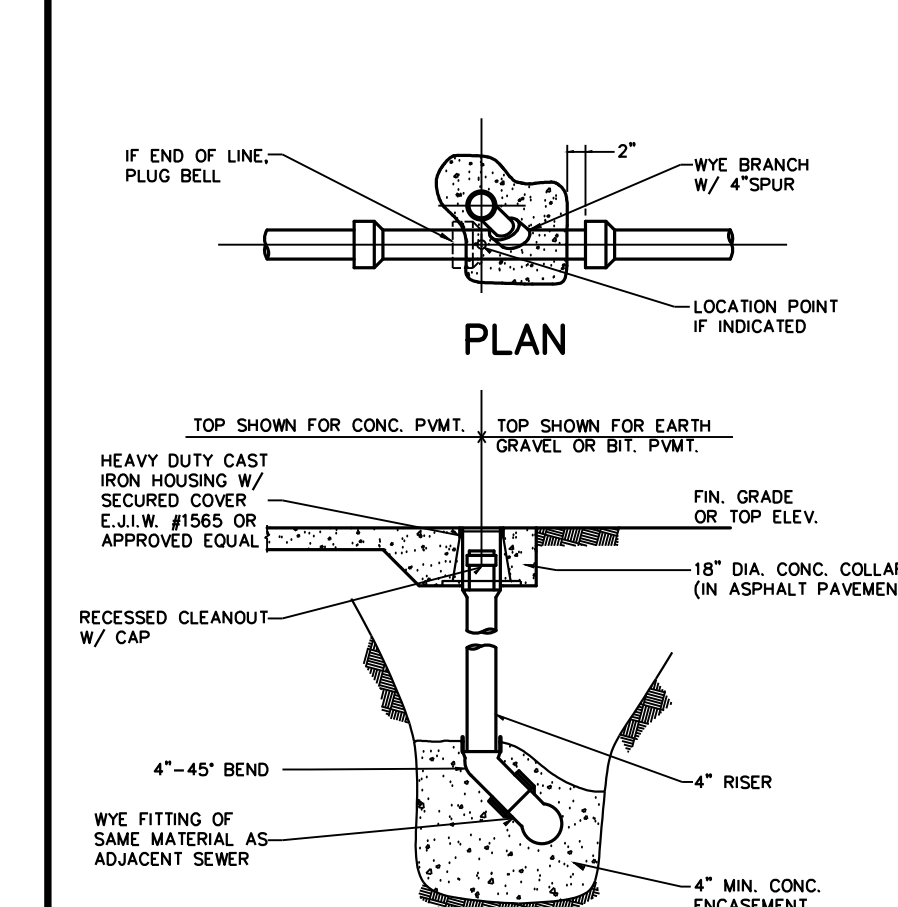
**SIGN AND POST INSTALLATION
IN LANDSCAPED AREAS**
NOT TO SCALE



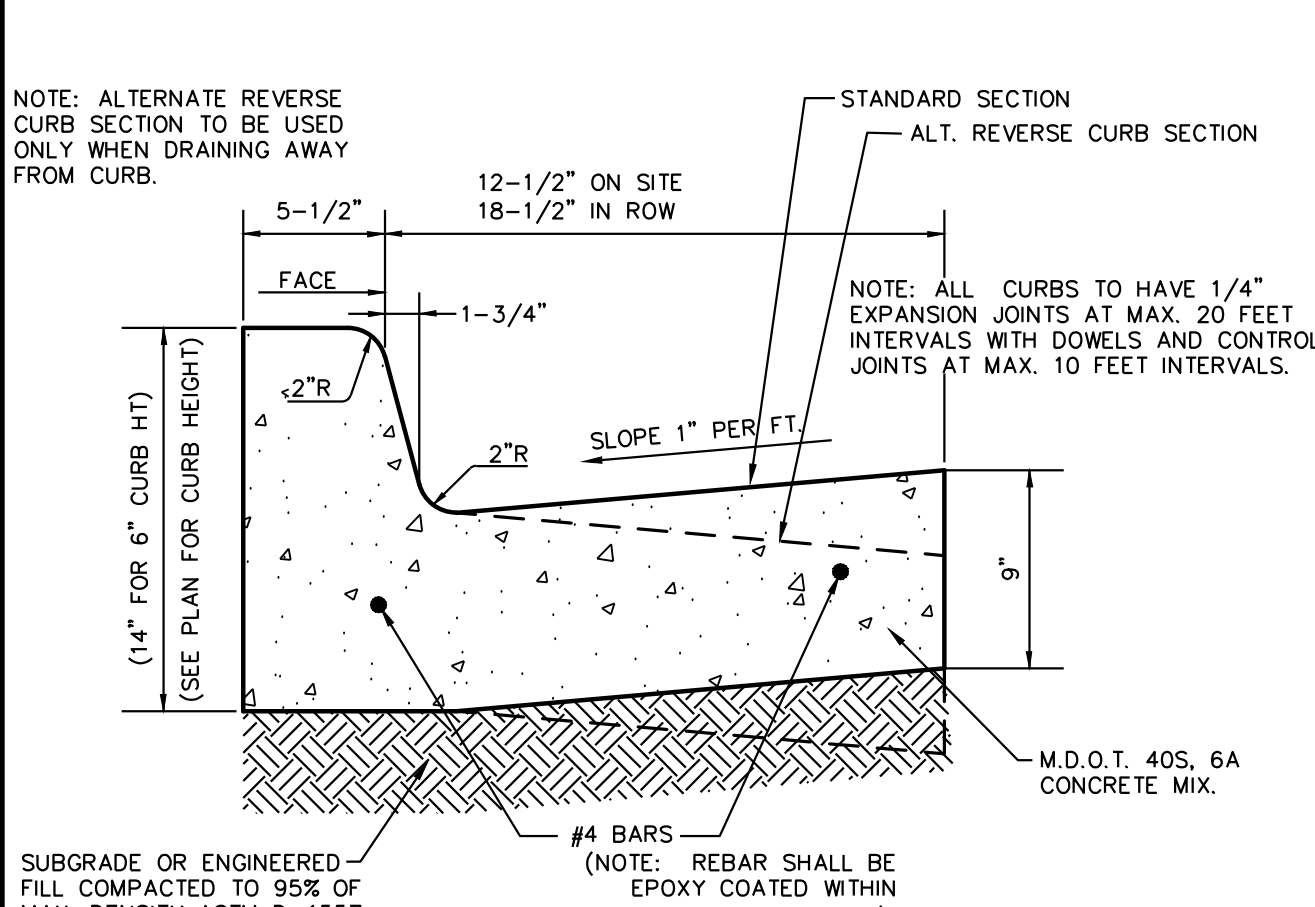
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FOR PARKING SPACE**
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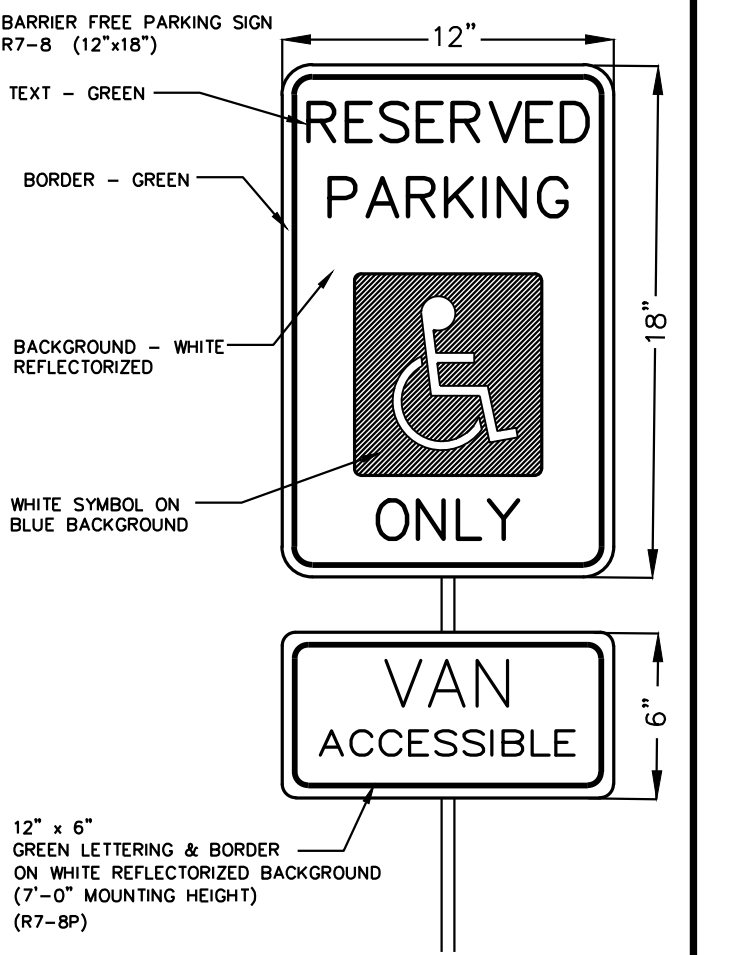
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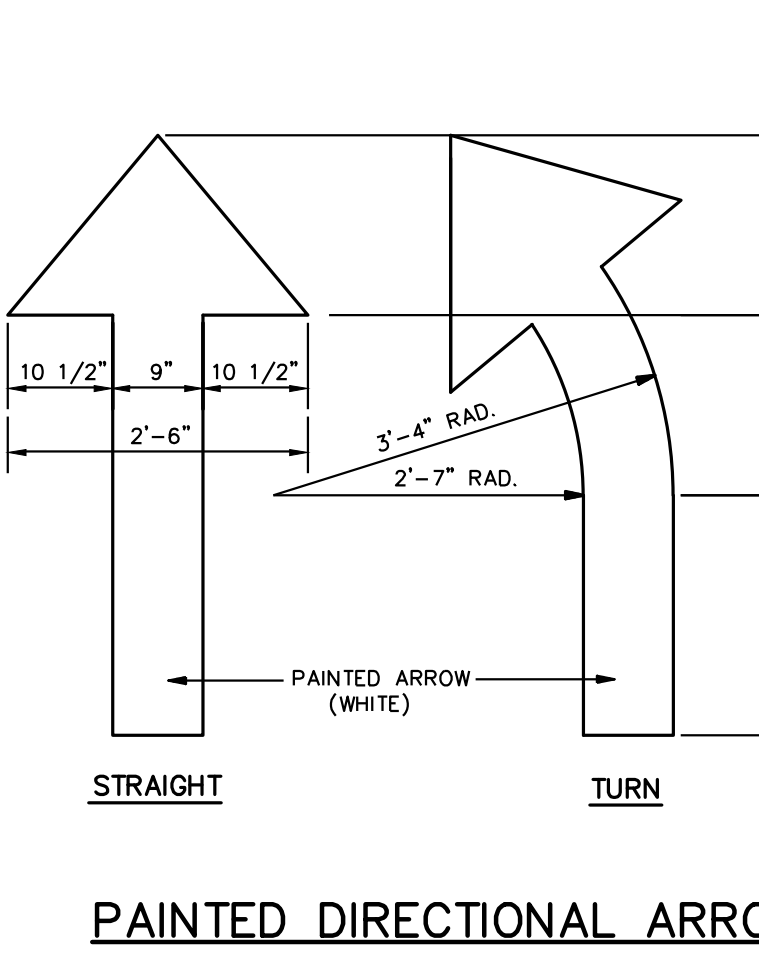
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SEWER CLEANOUT**
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STANDARD CONCRETE CURB AND GUTTER
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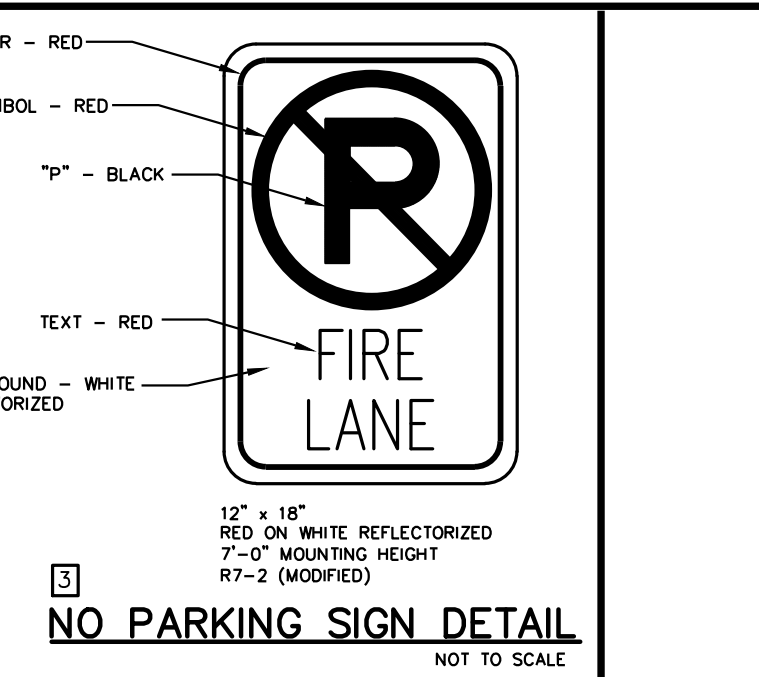
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NOT TO SCALE



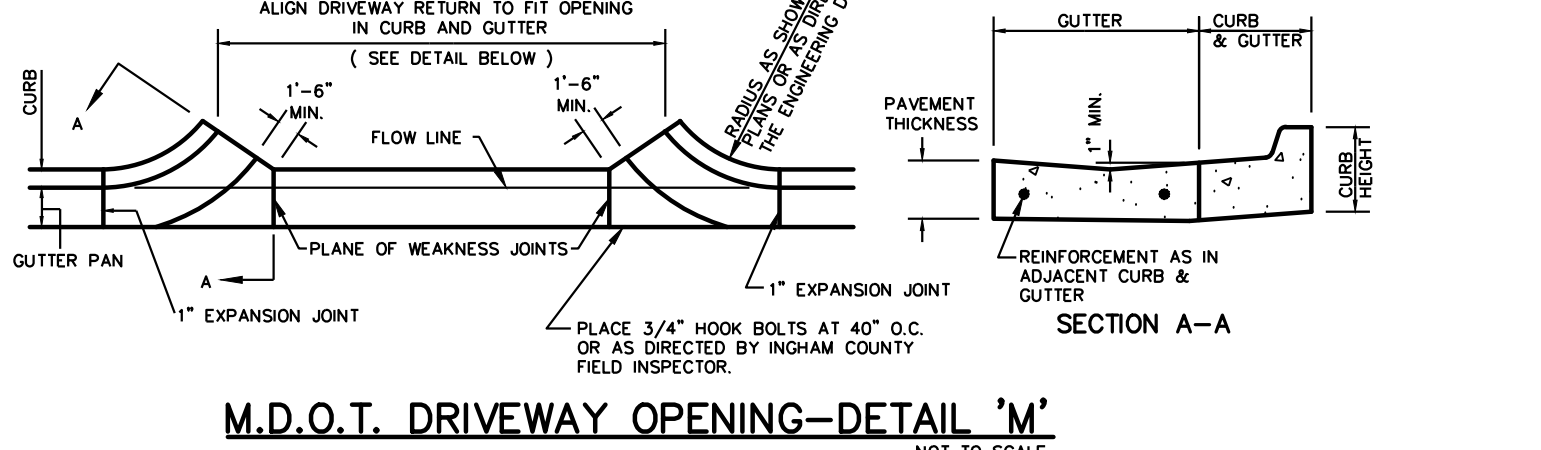
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(N.T.S.)**



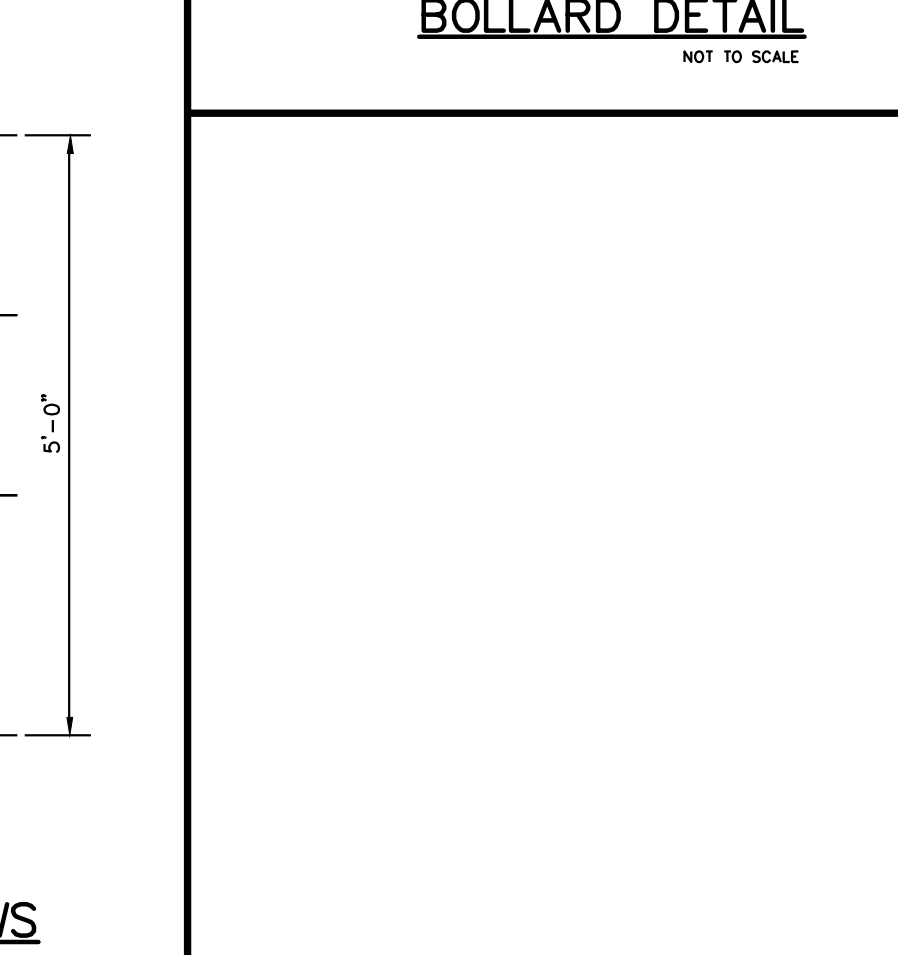
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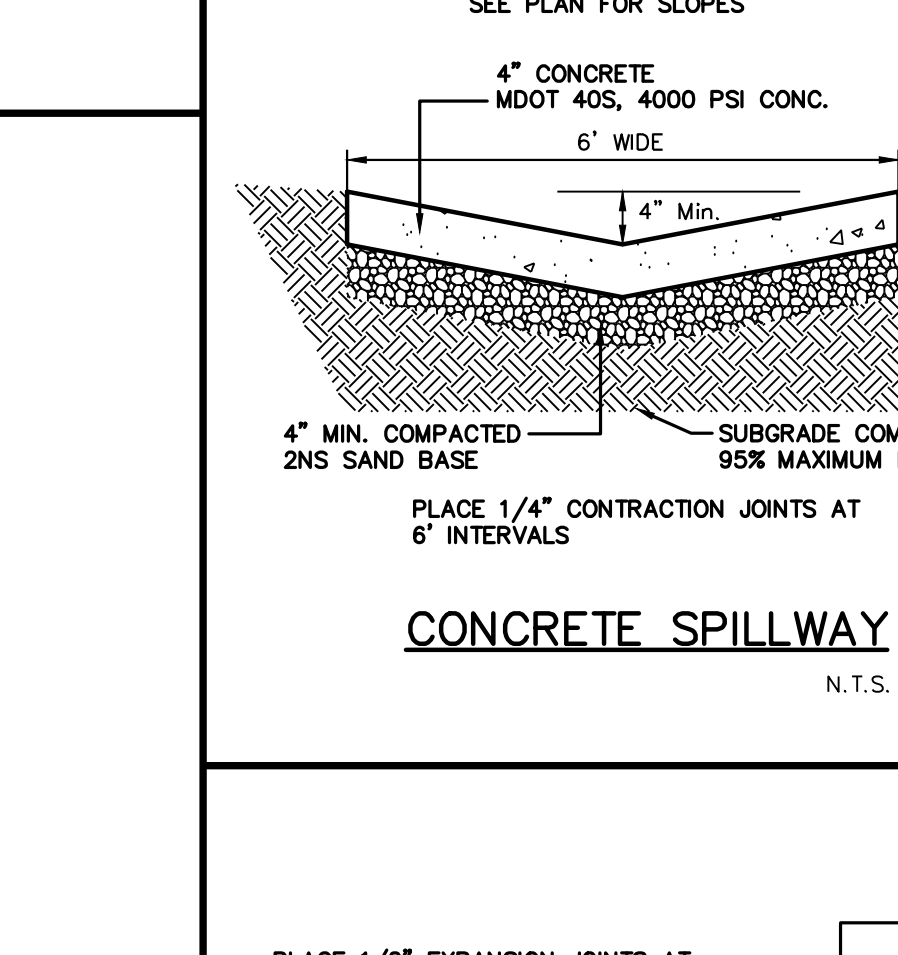
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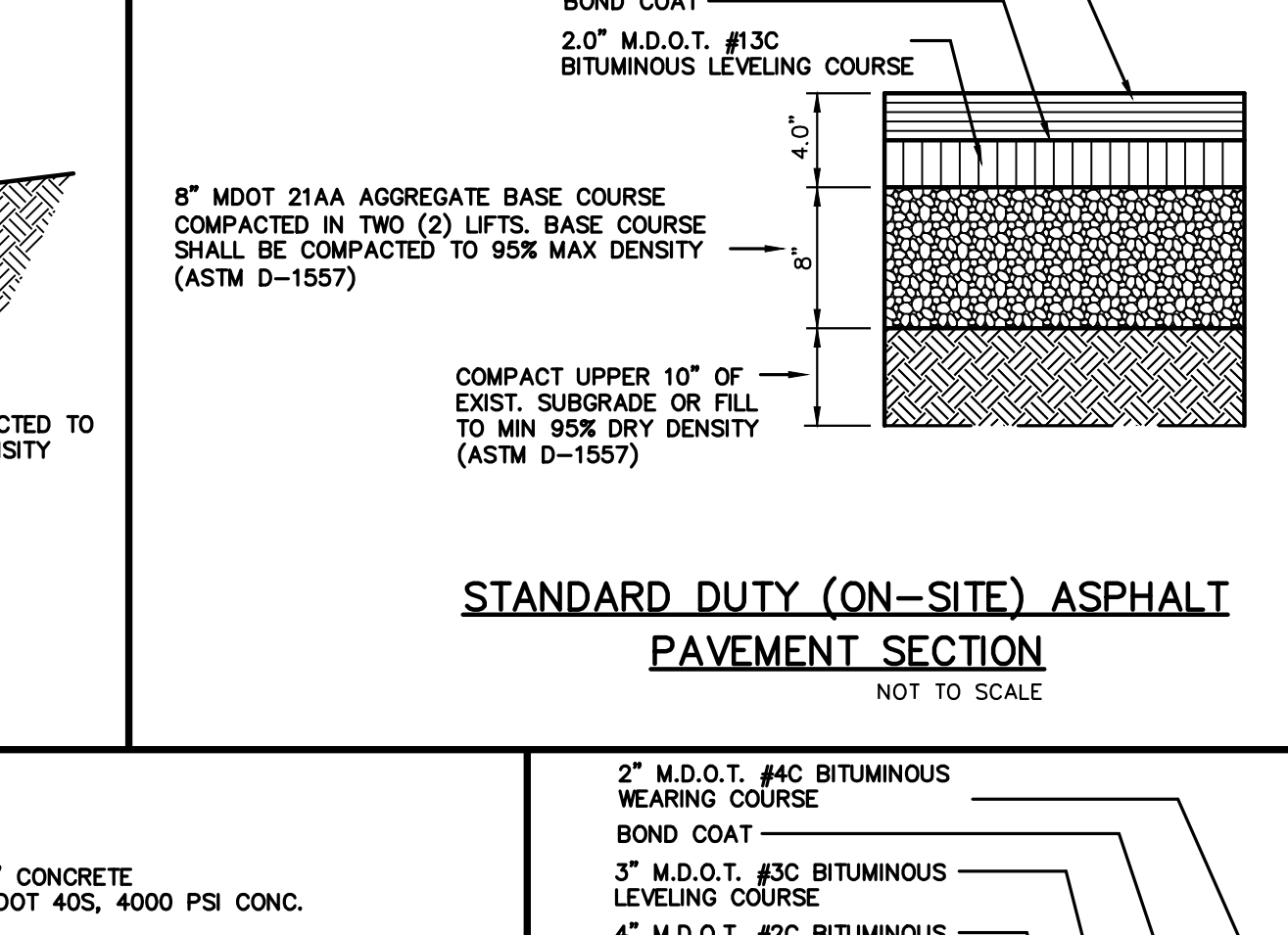
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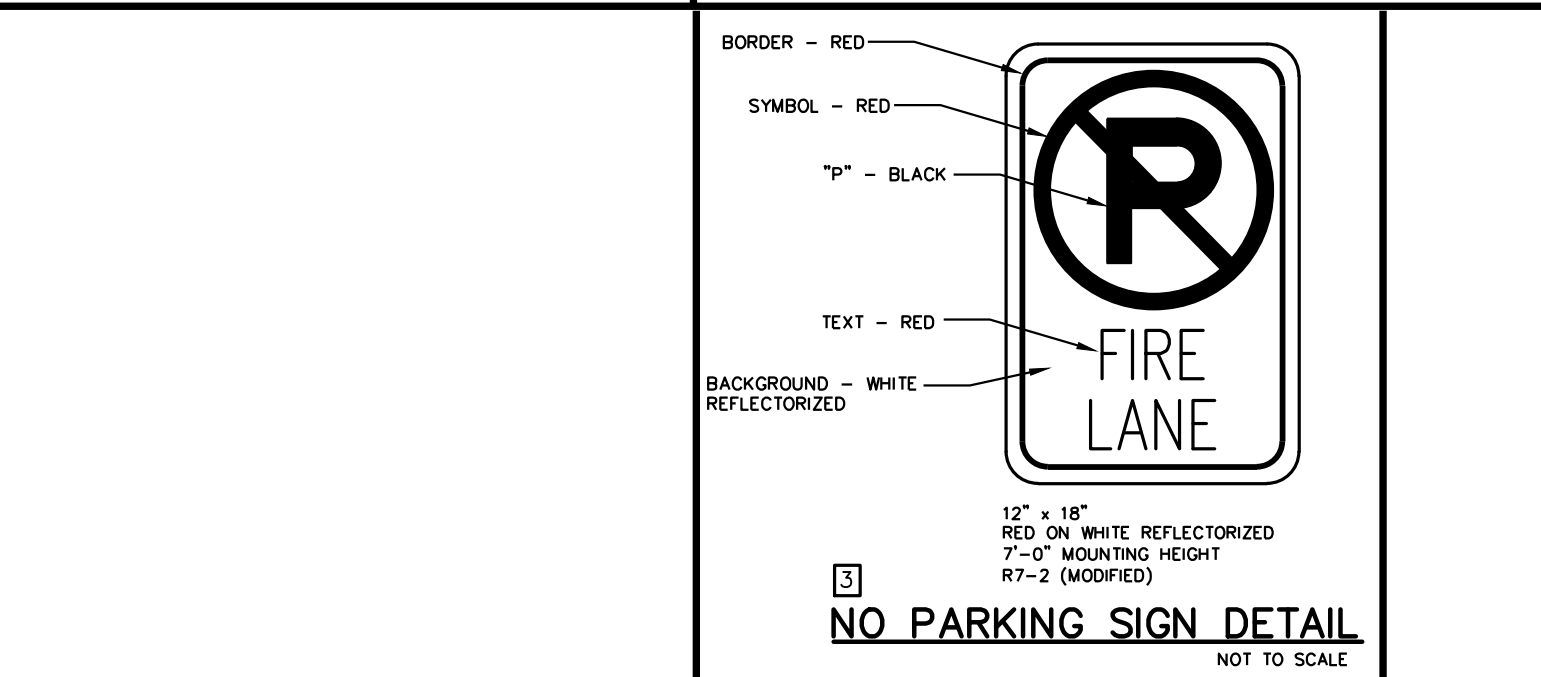
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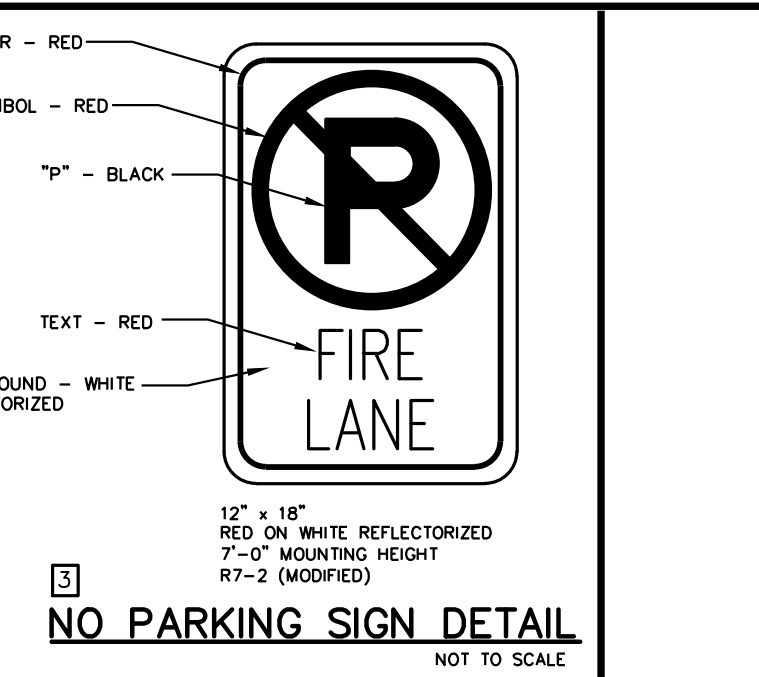
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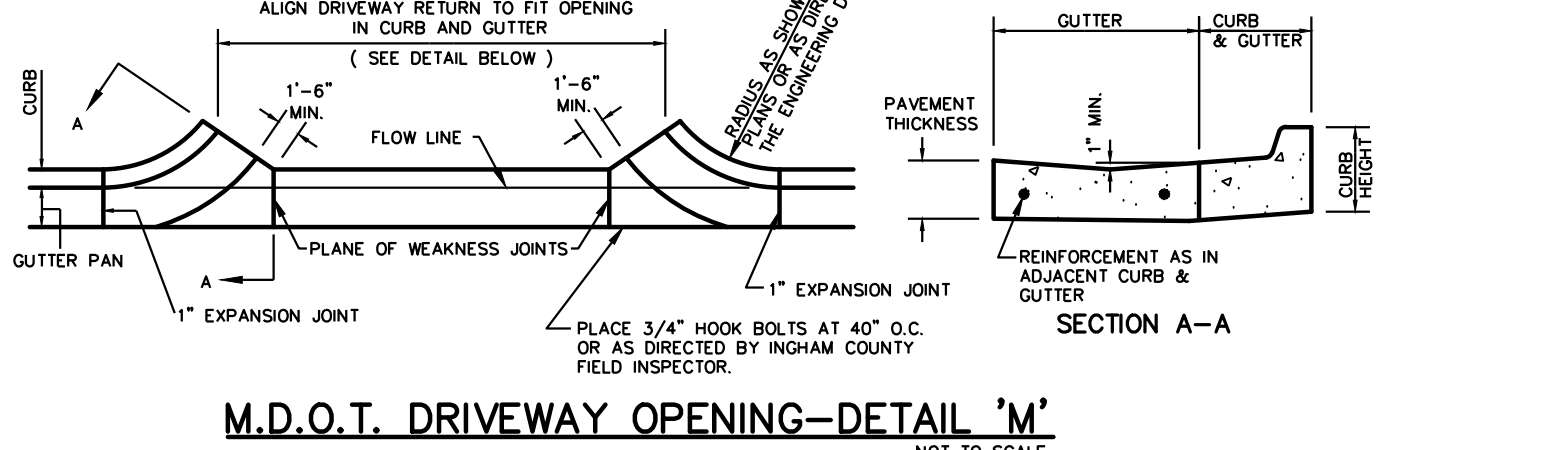
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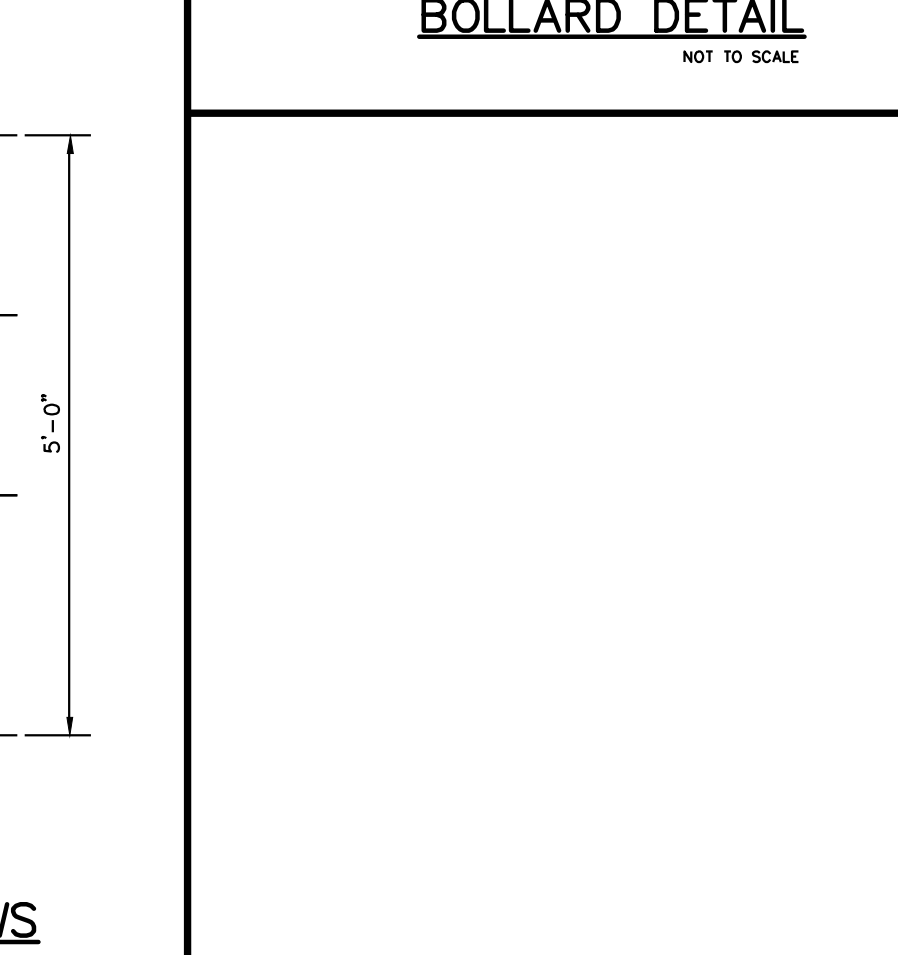
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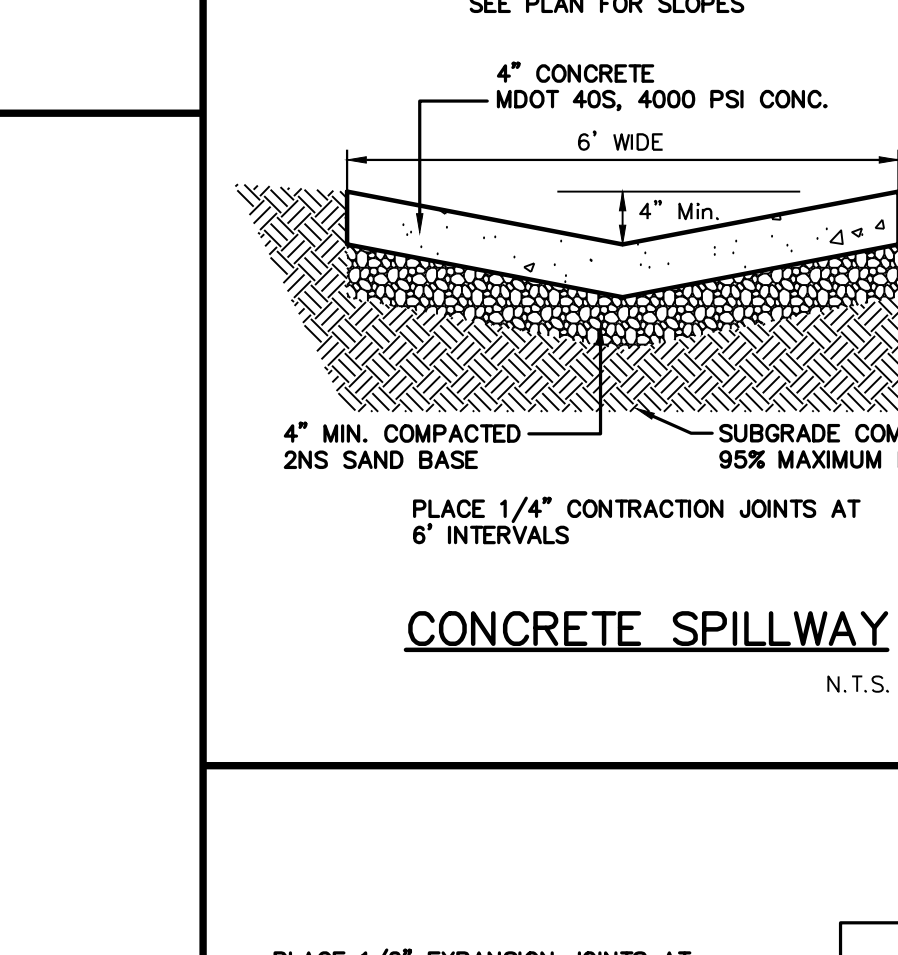
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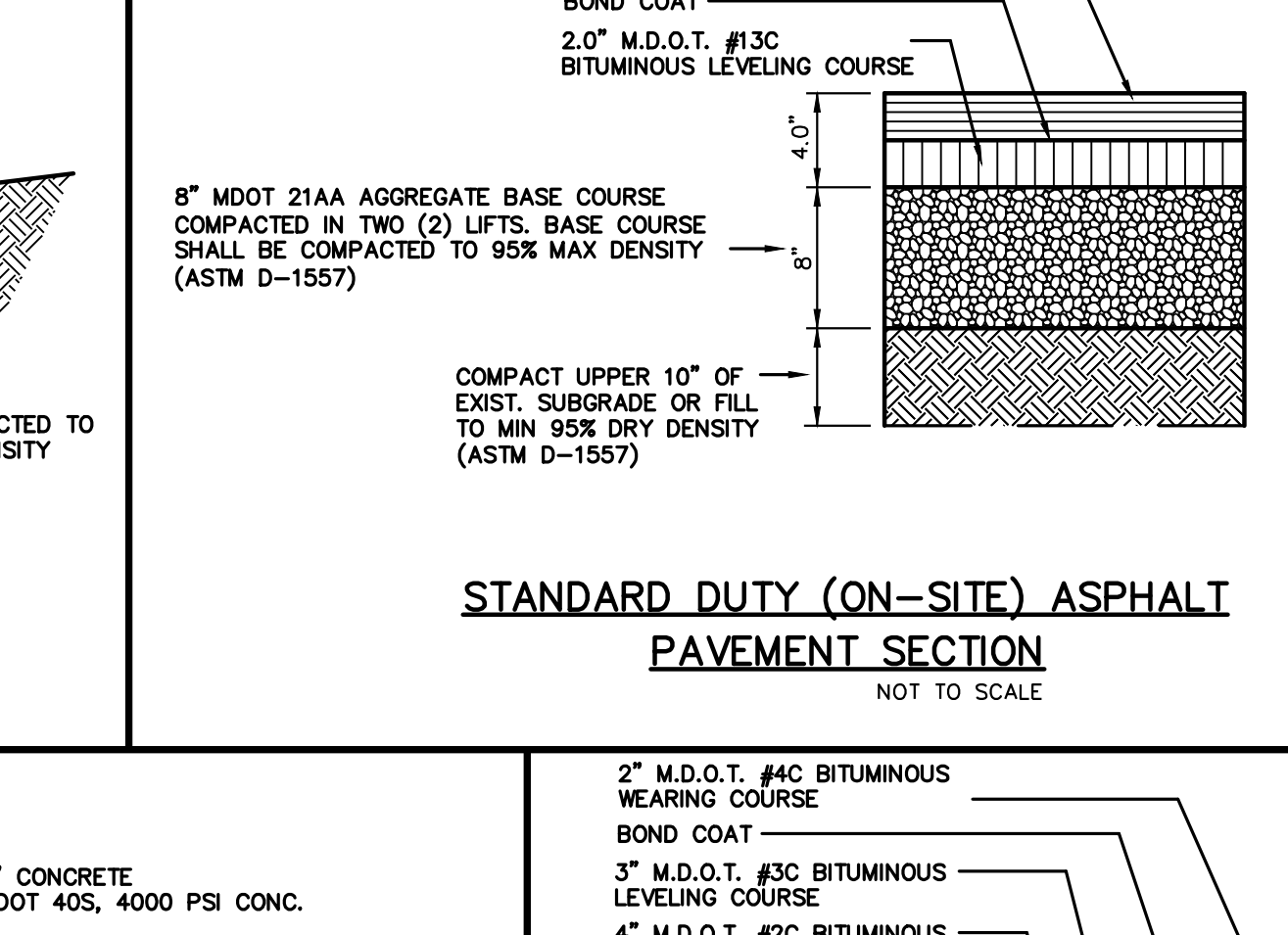
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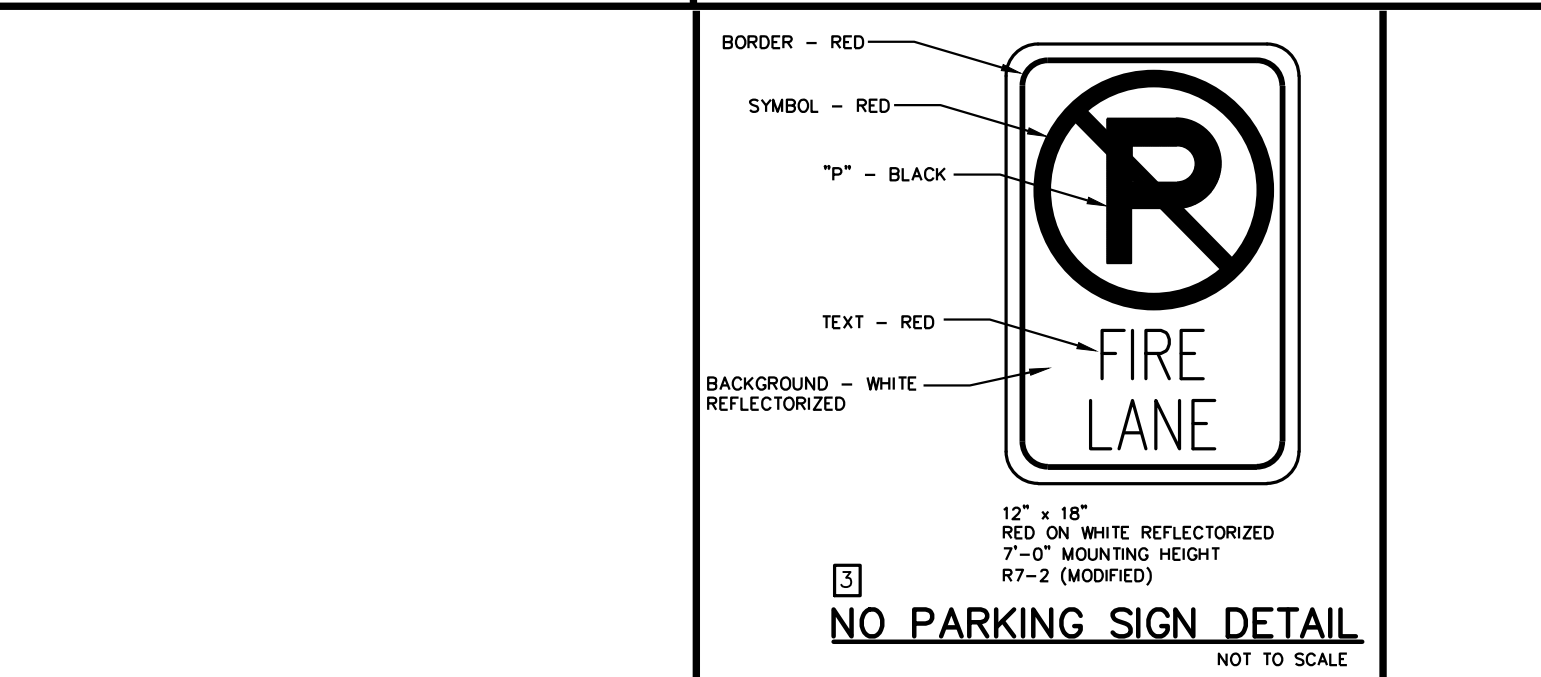
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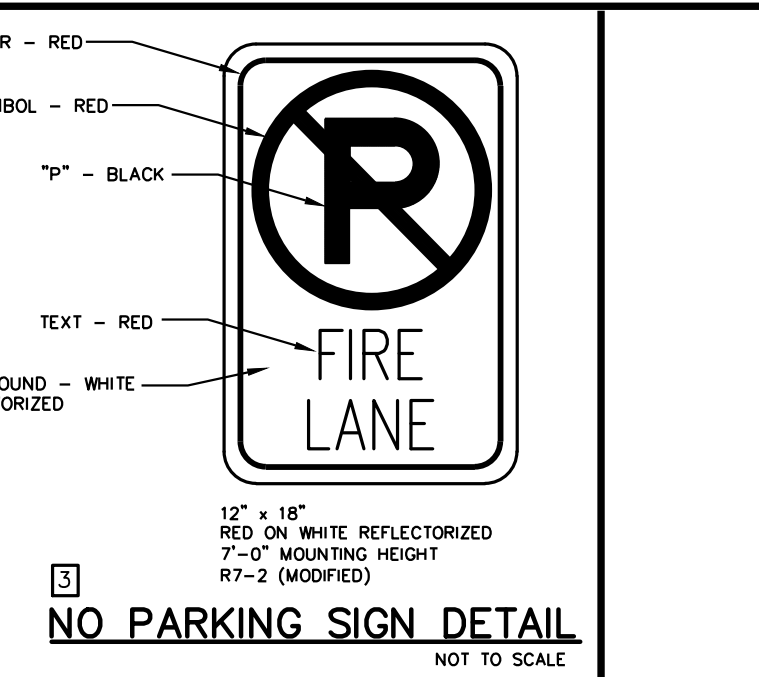
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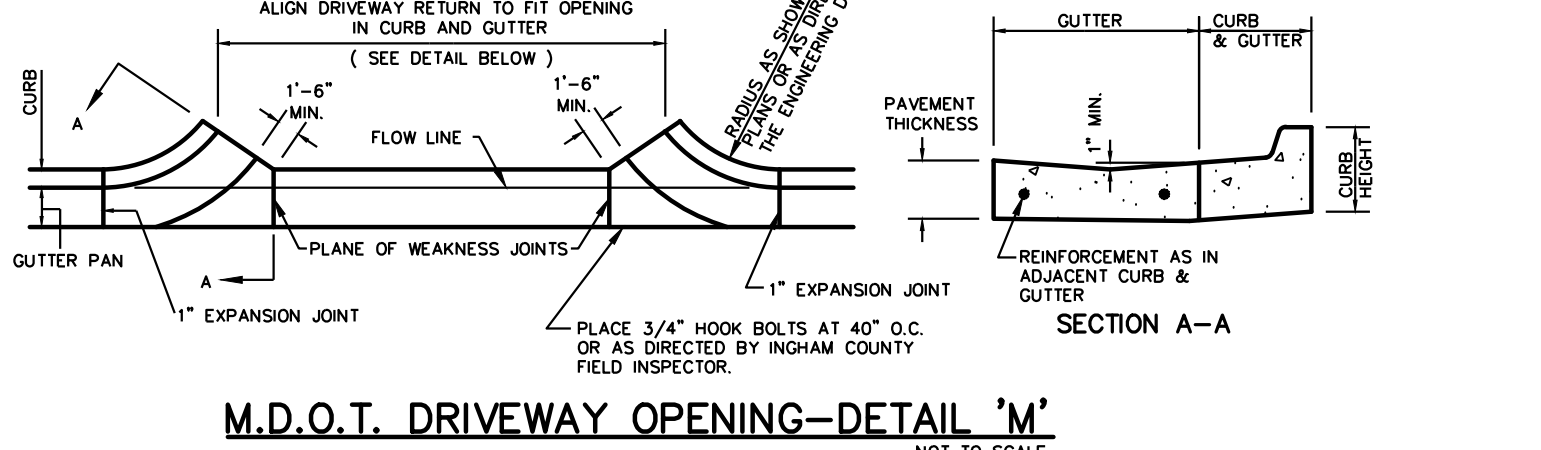
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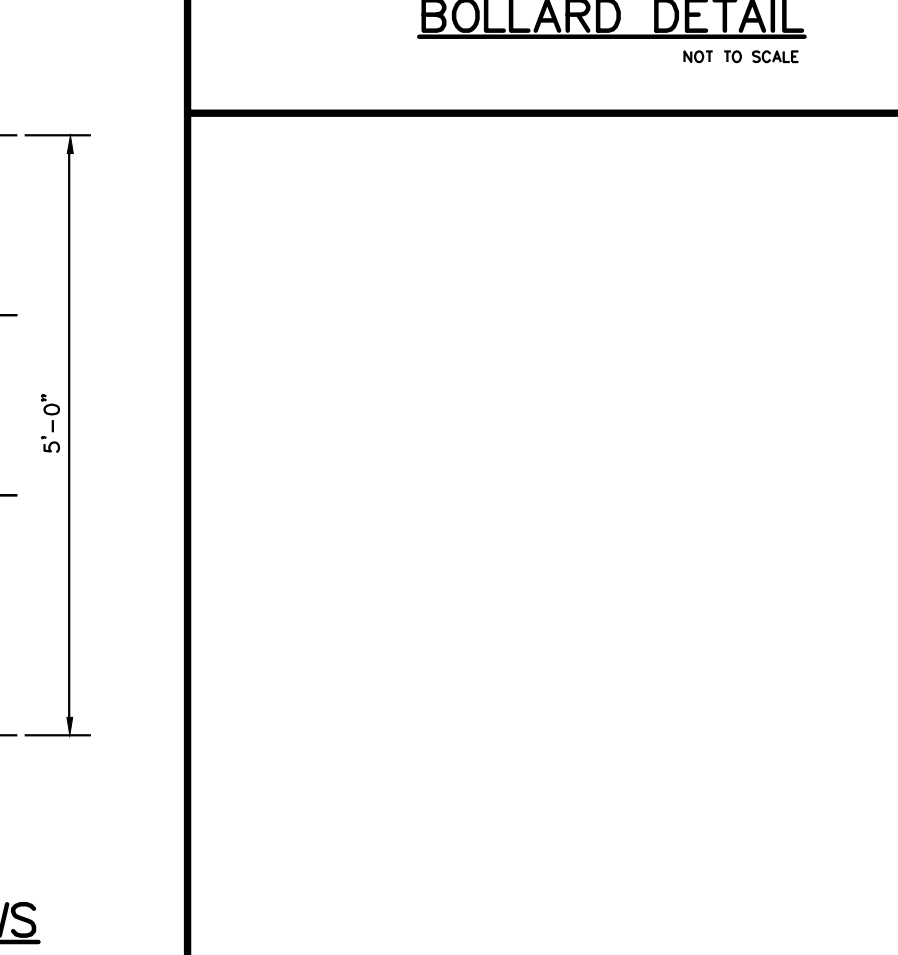
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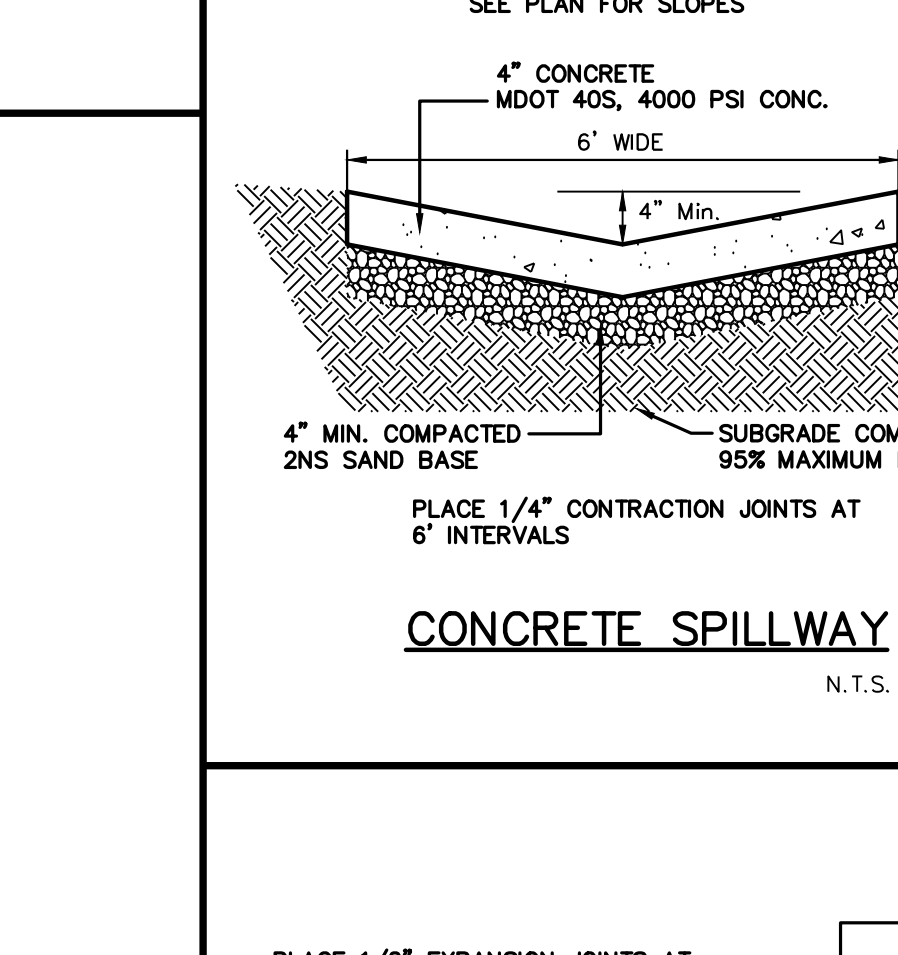
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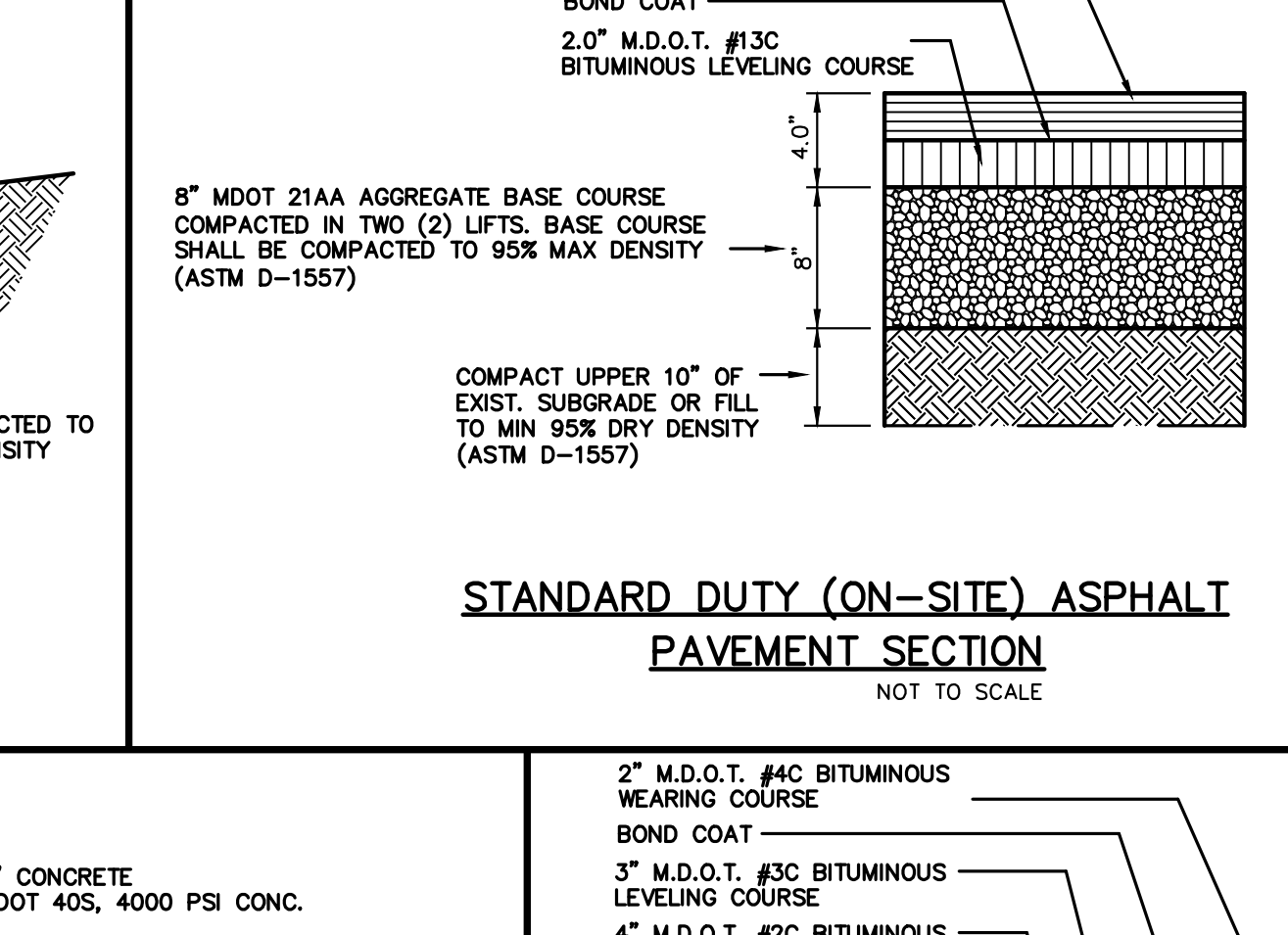
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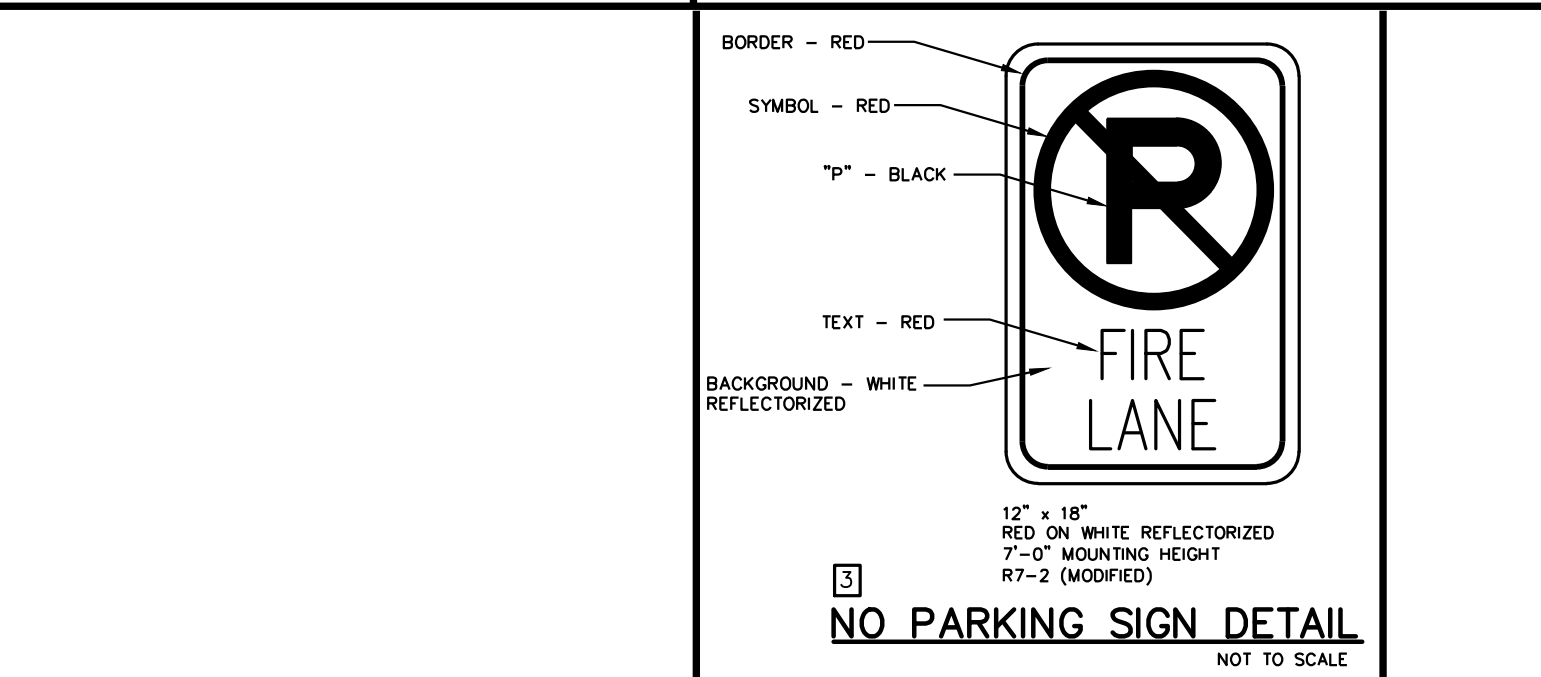
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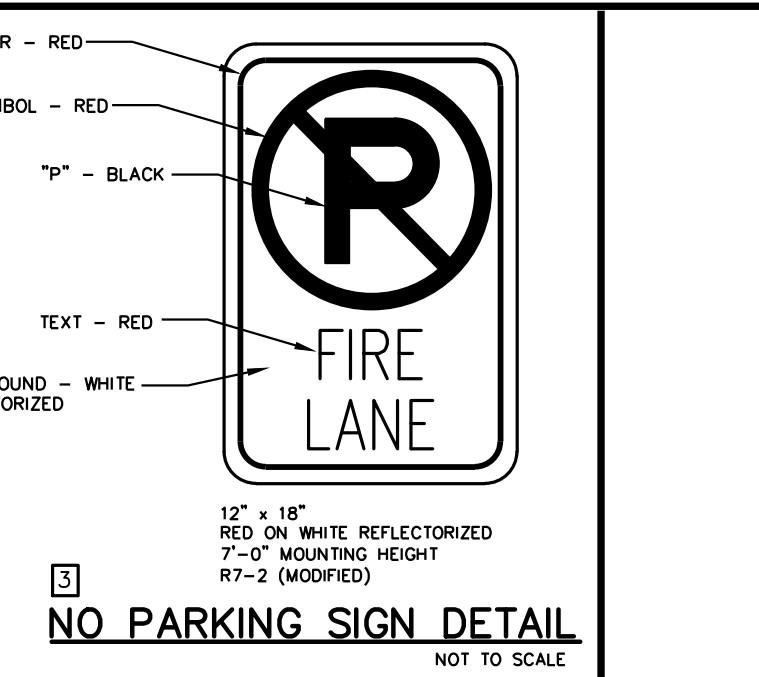
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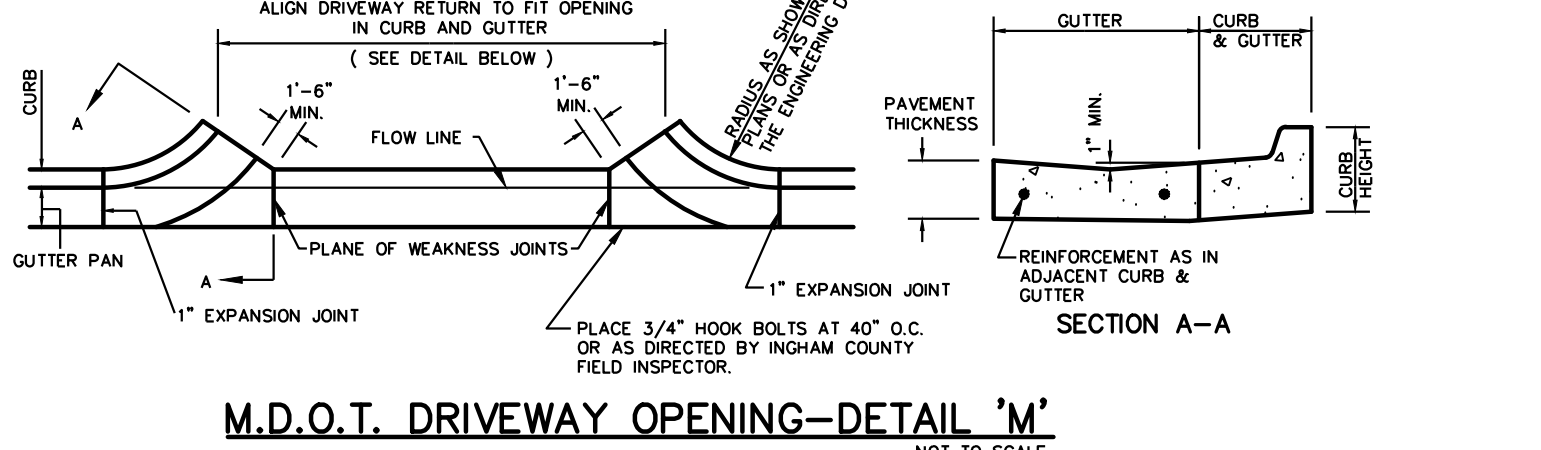
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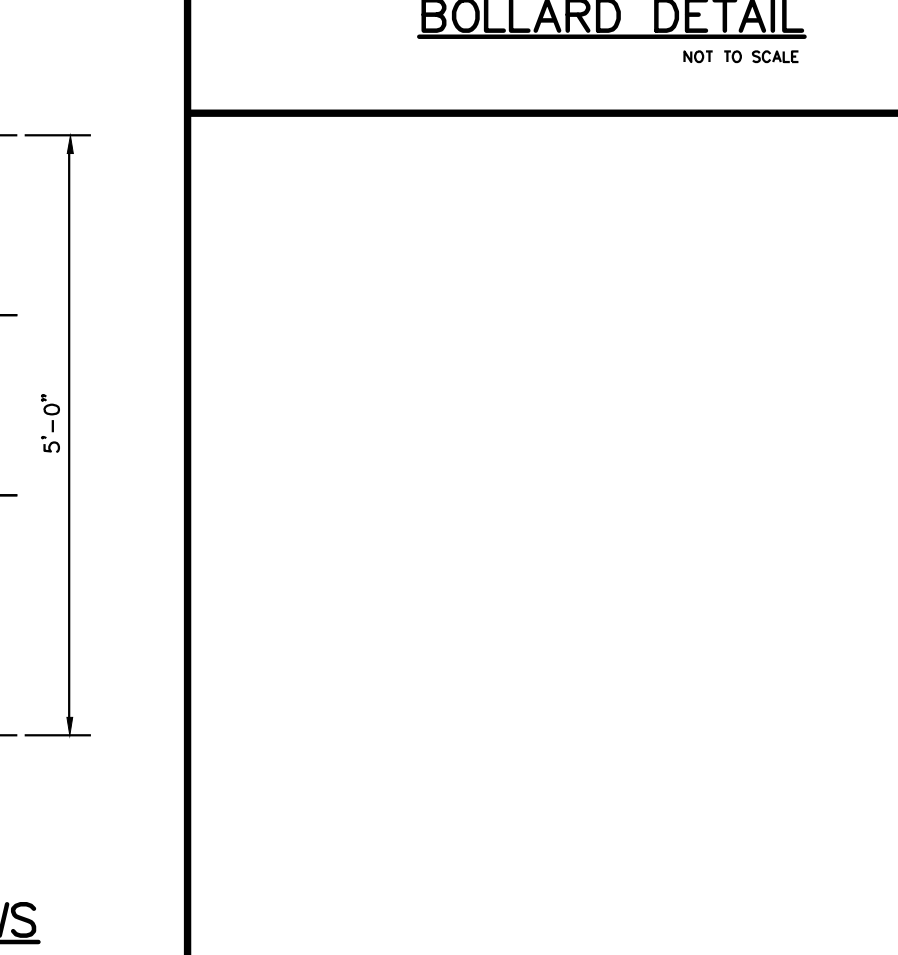
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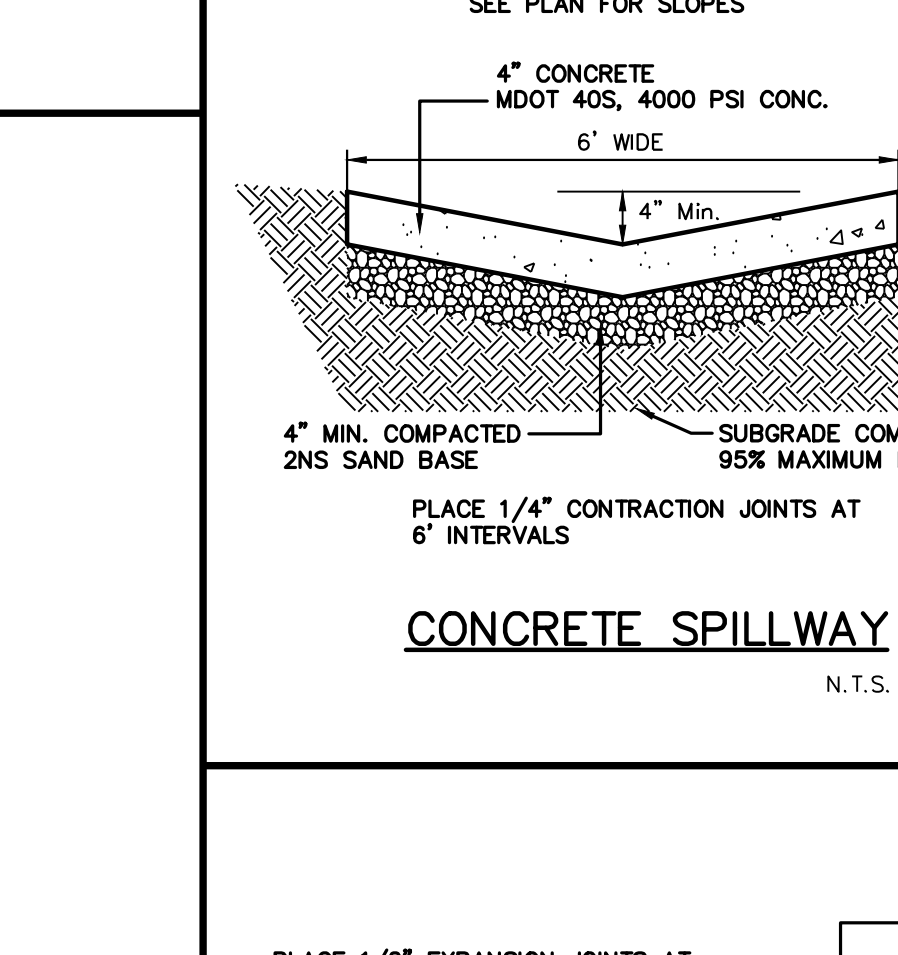
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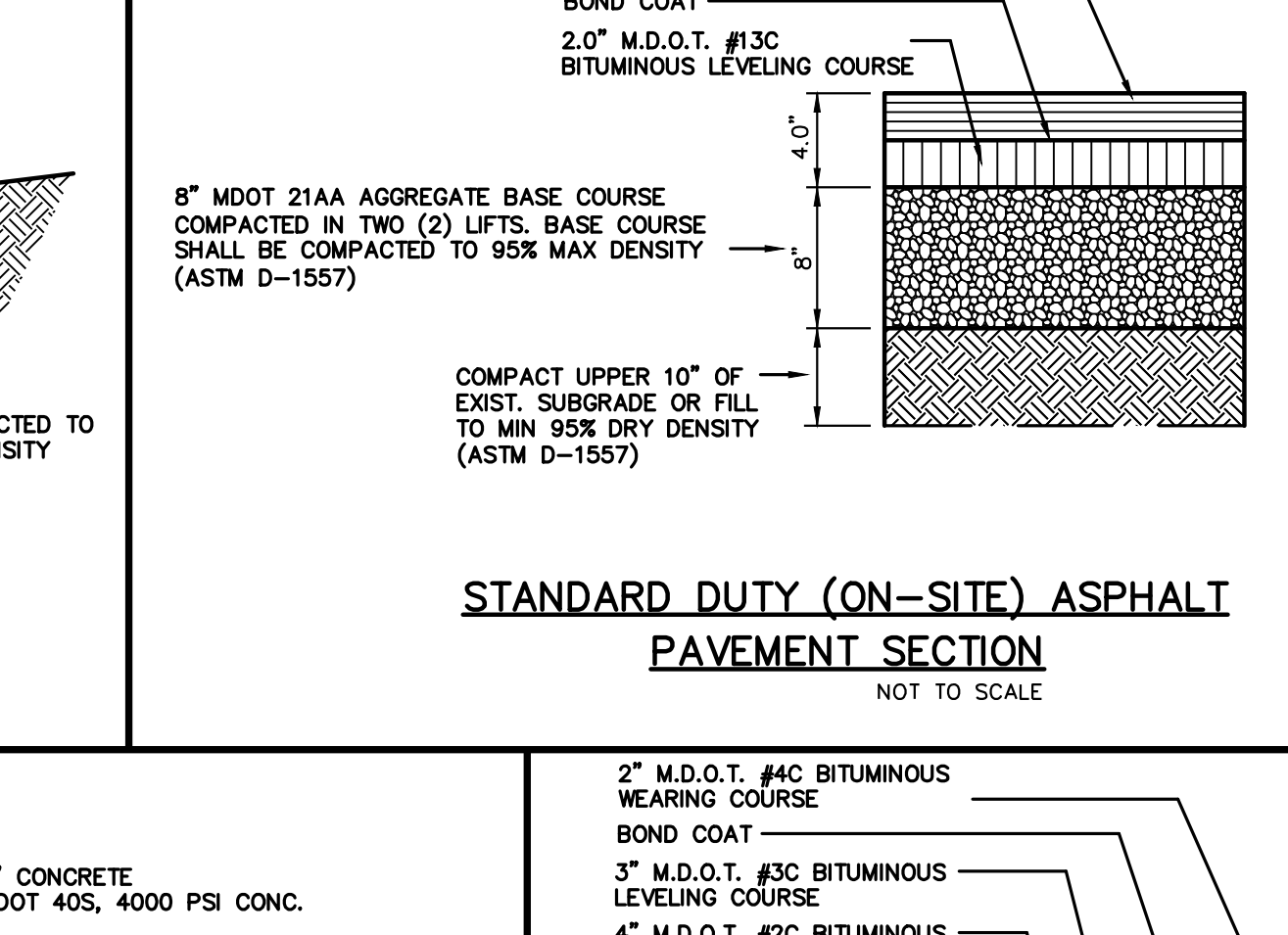
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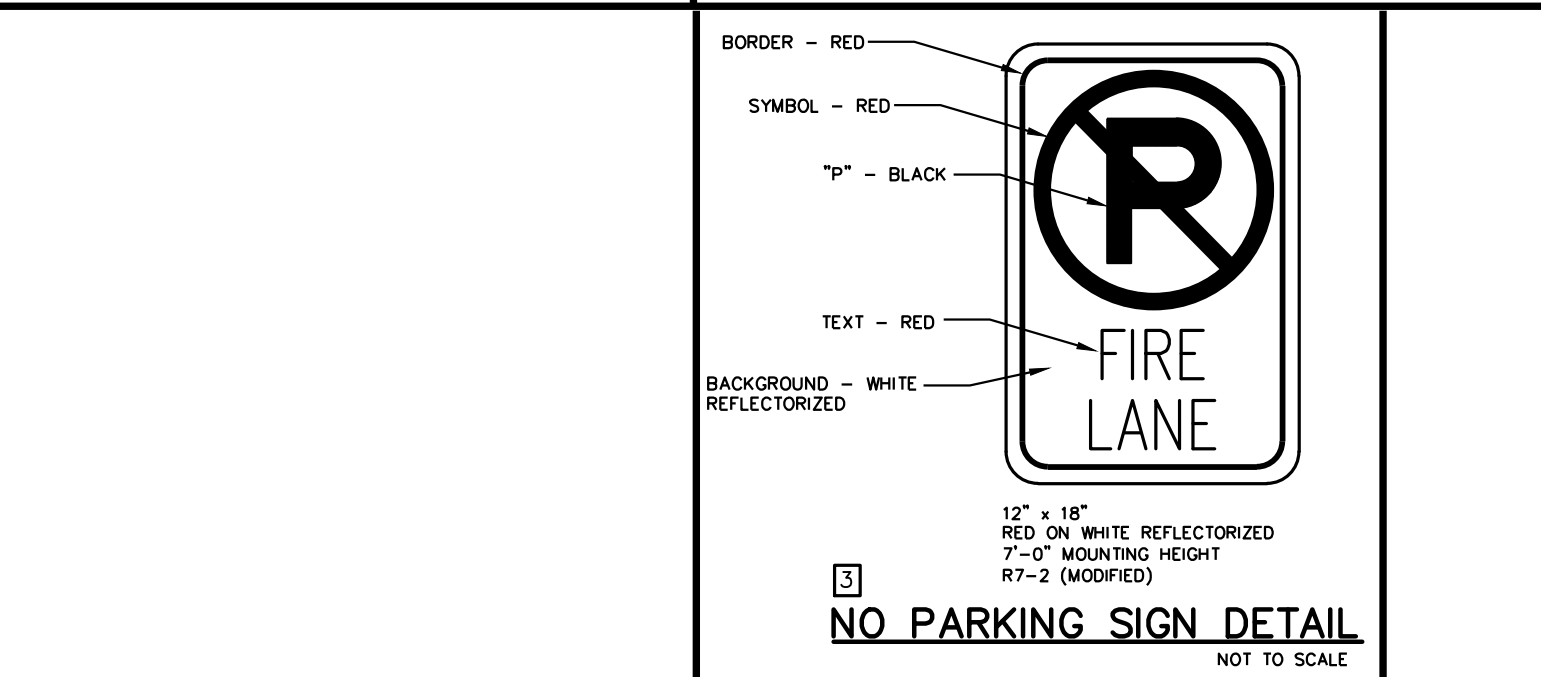
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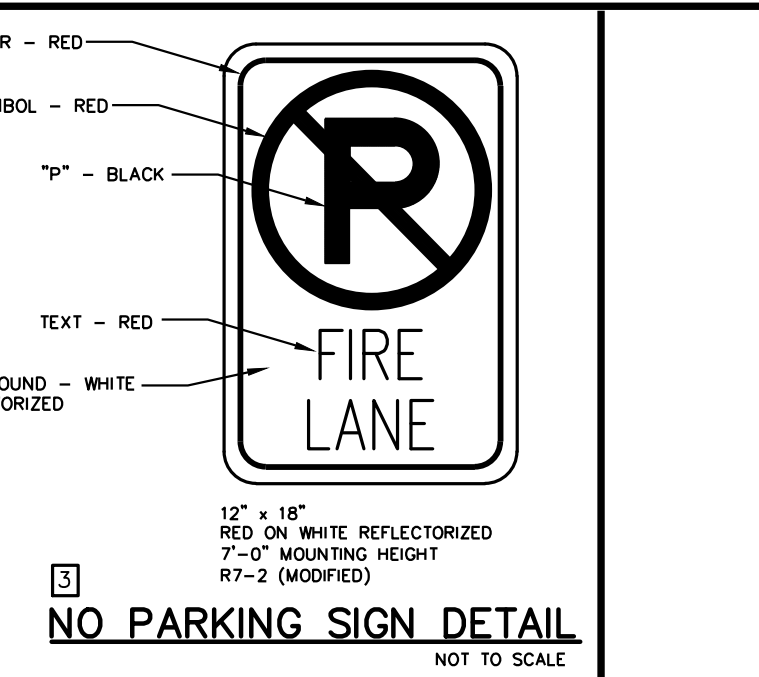
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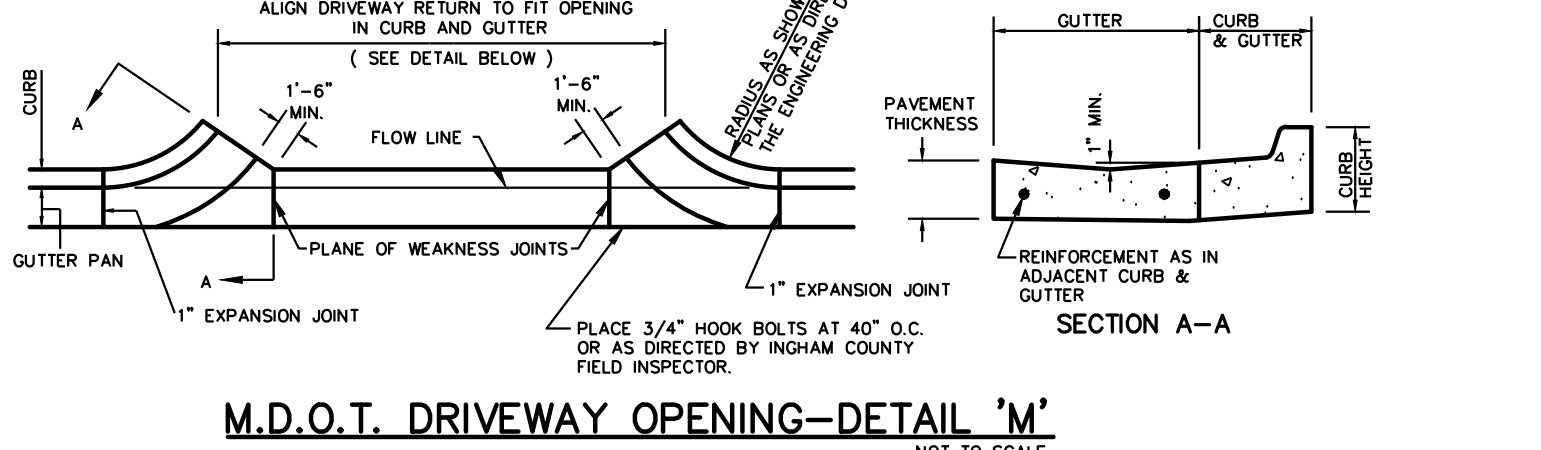
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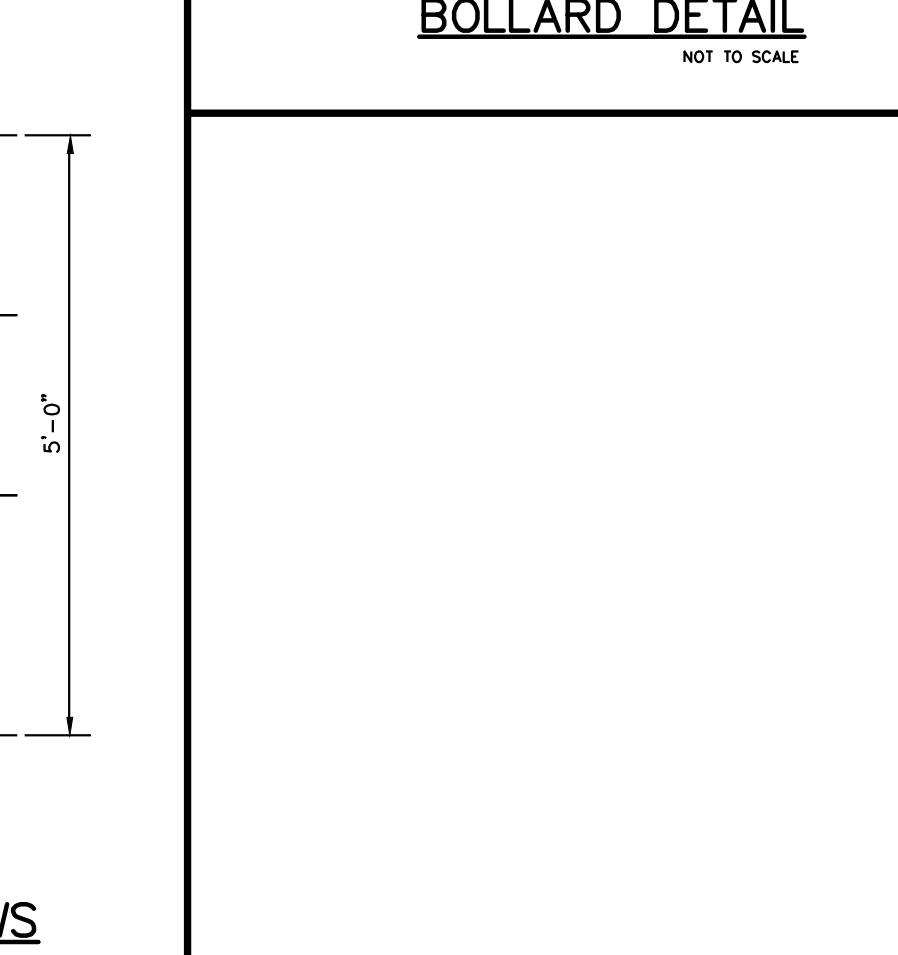
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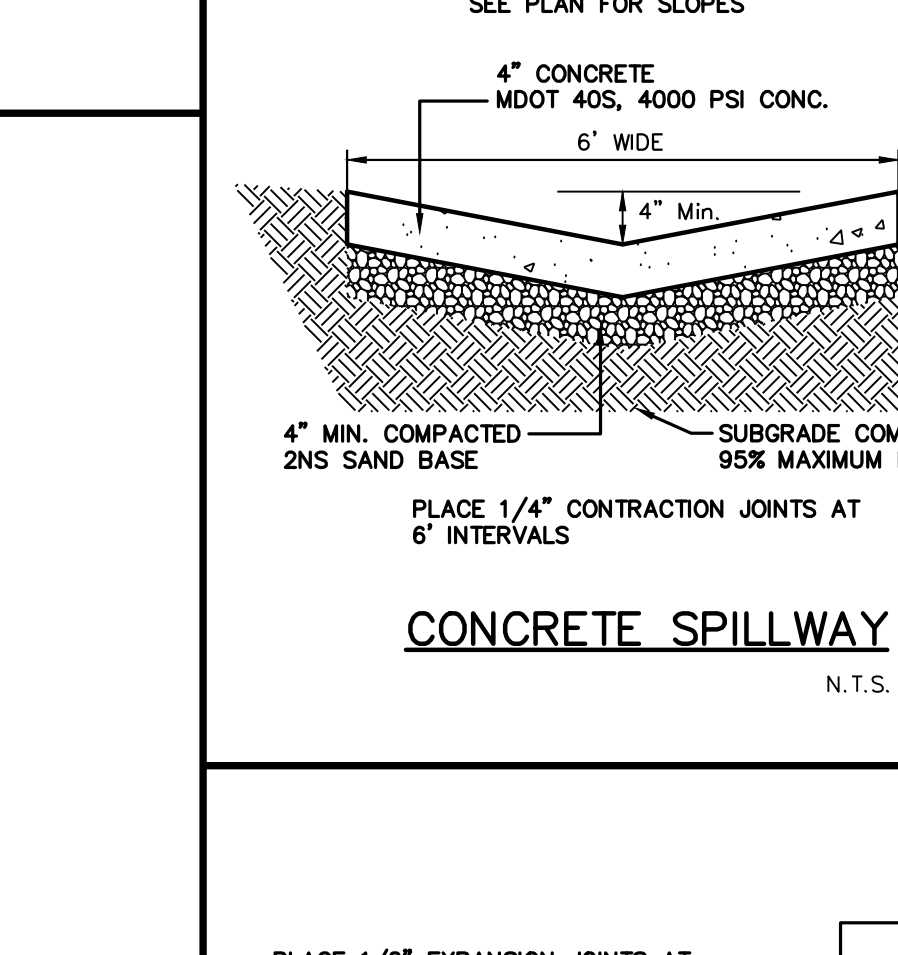
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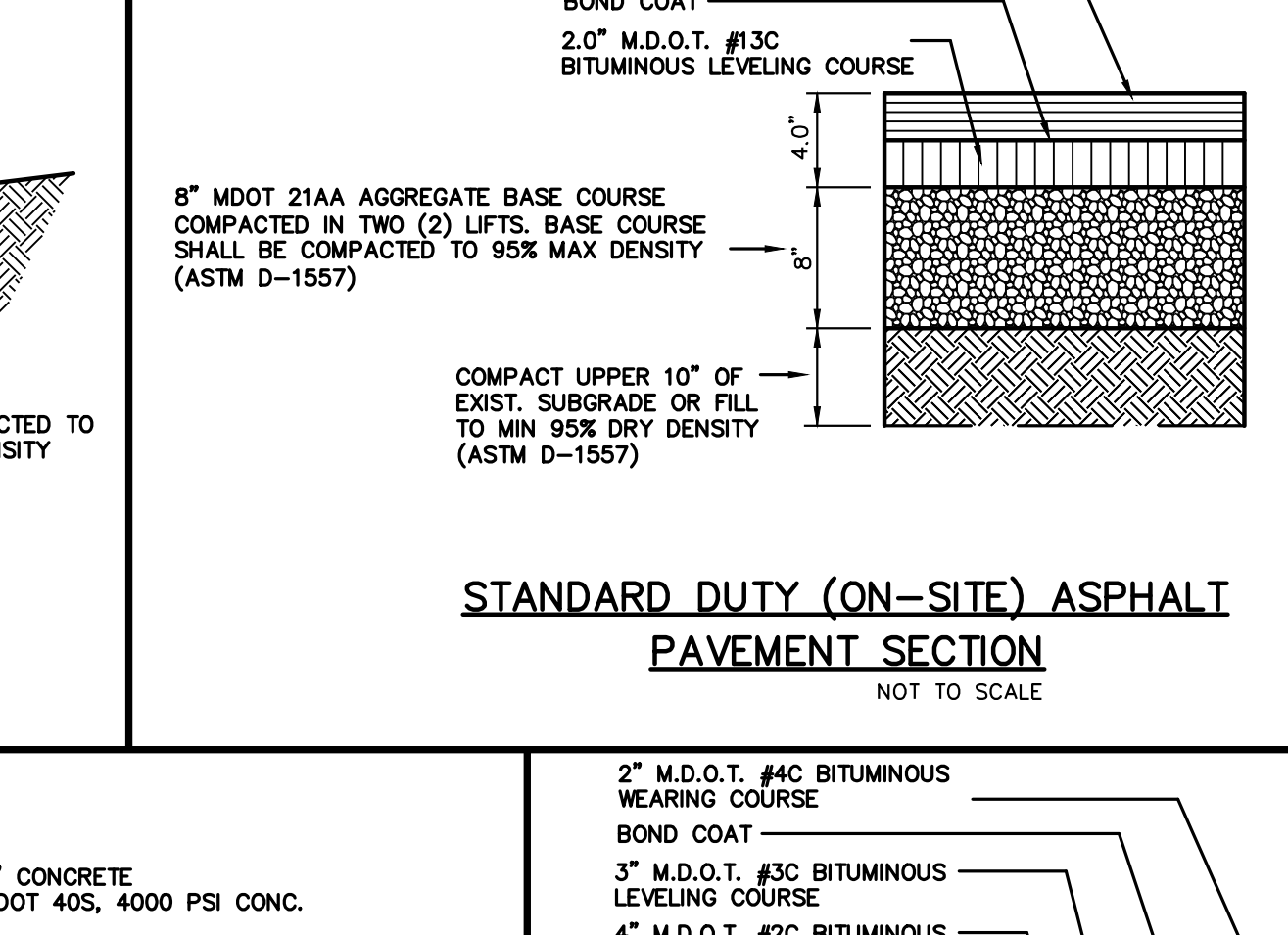
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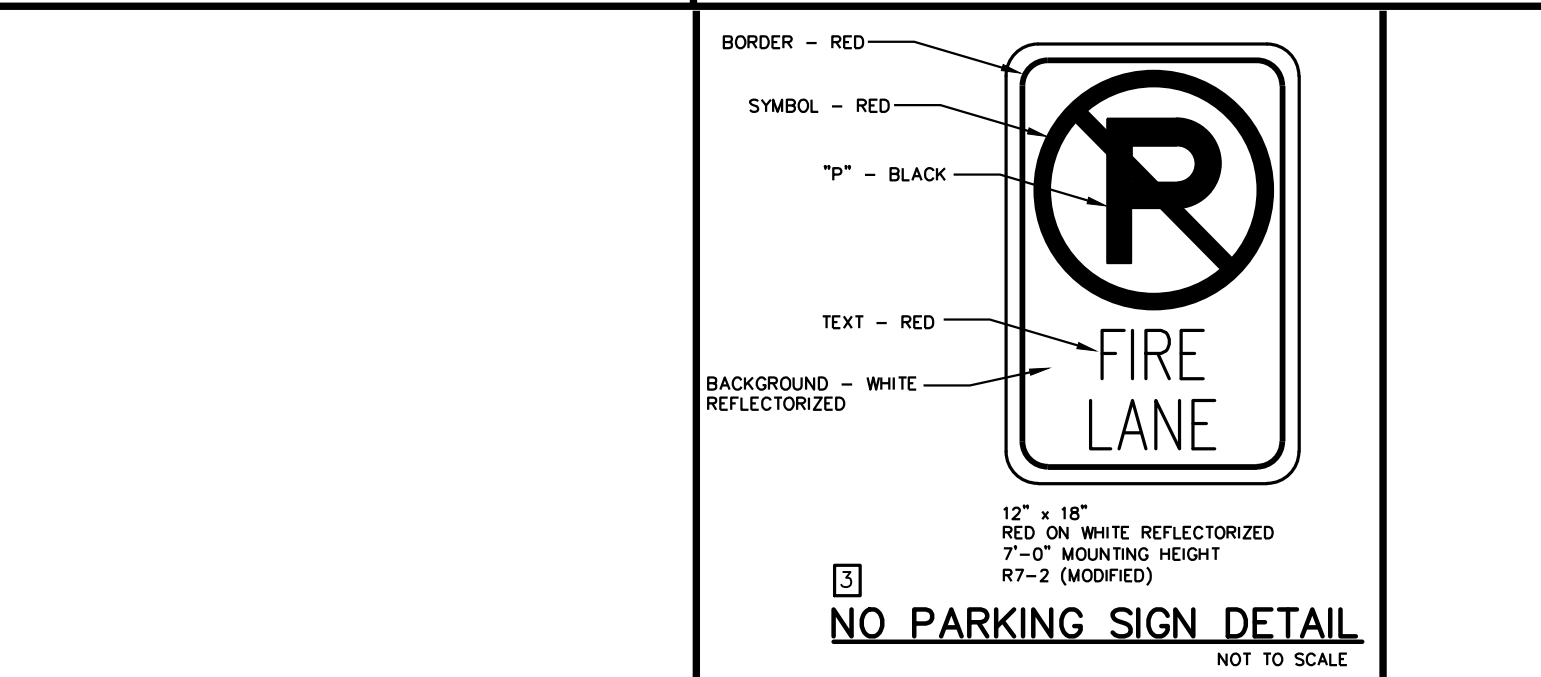
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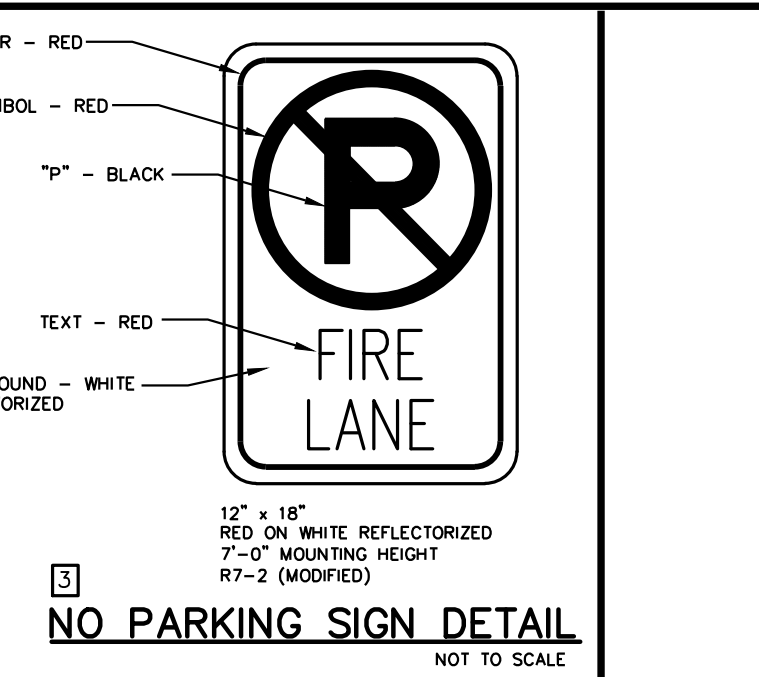
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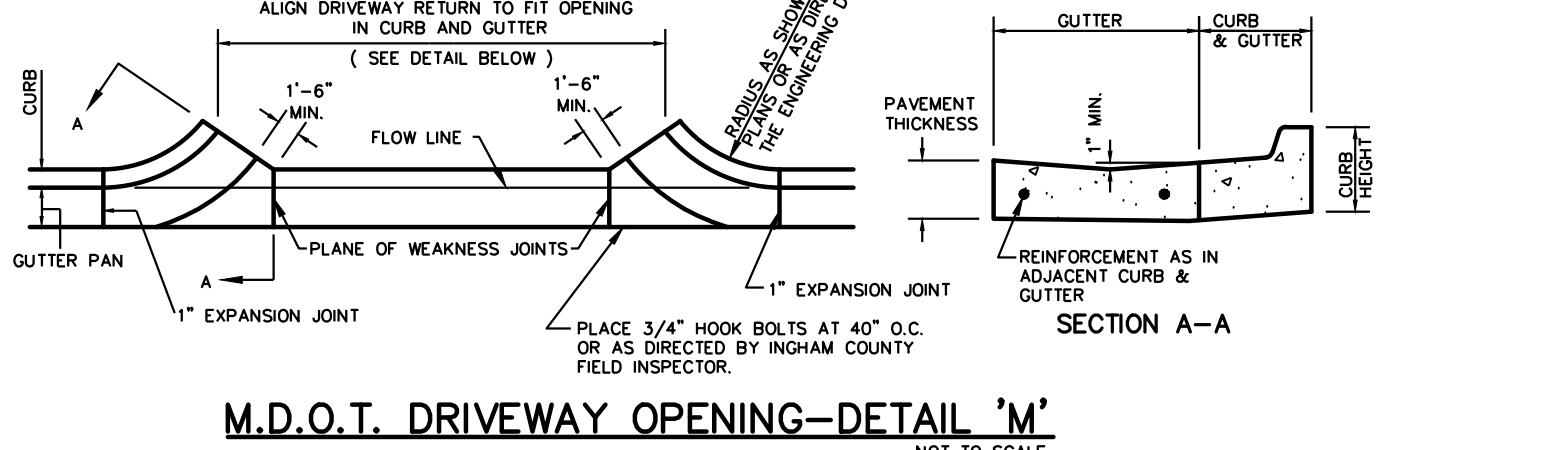
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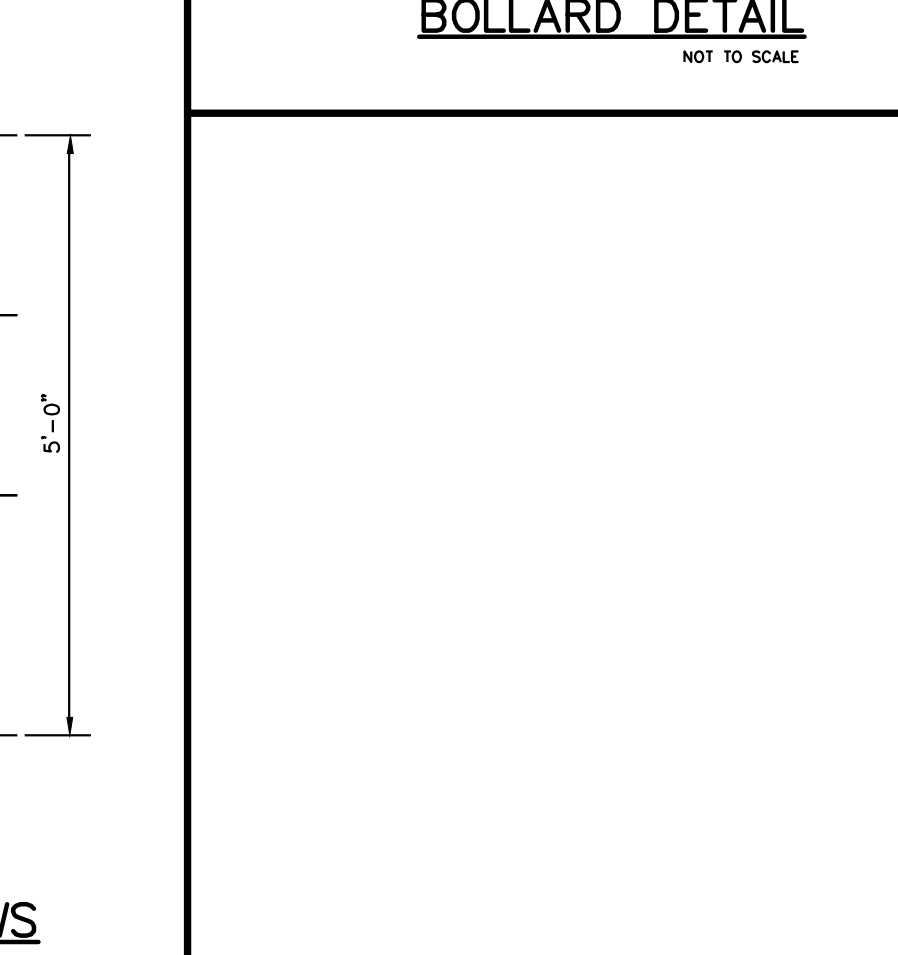
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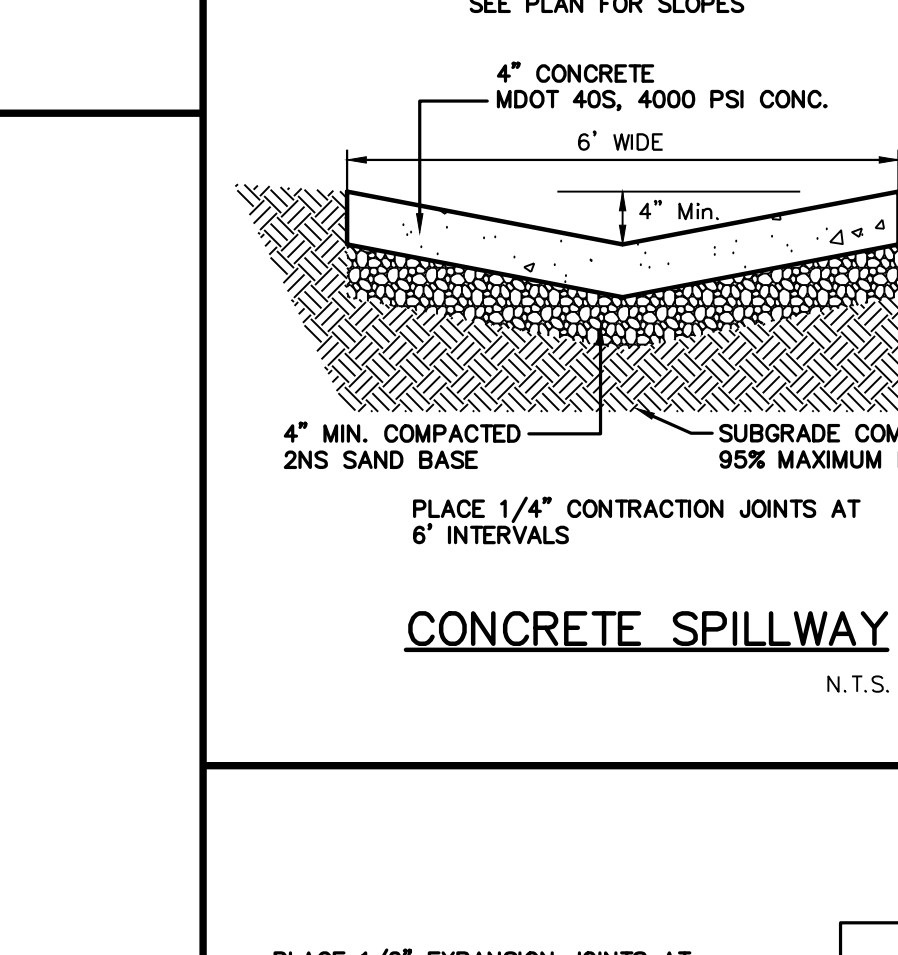
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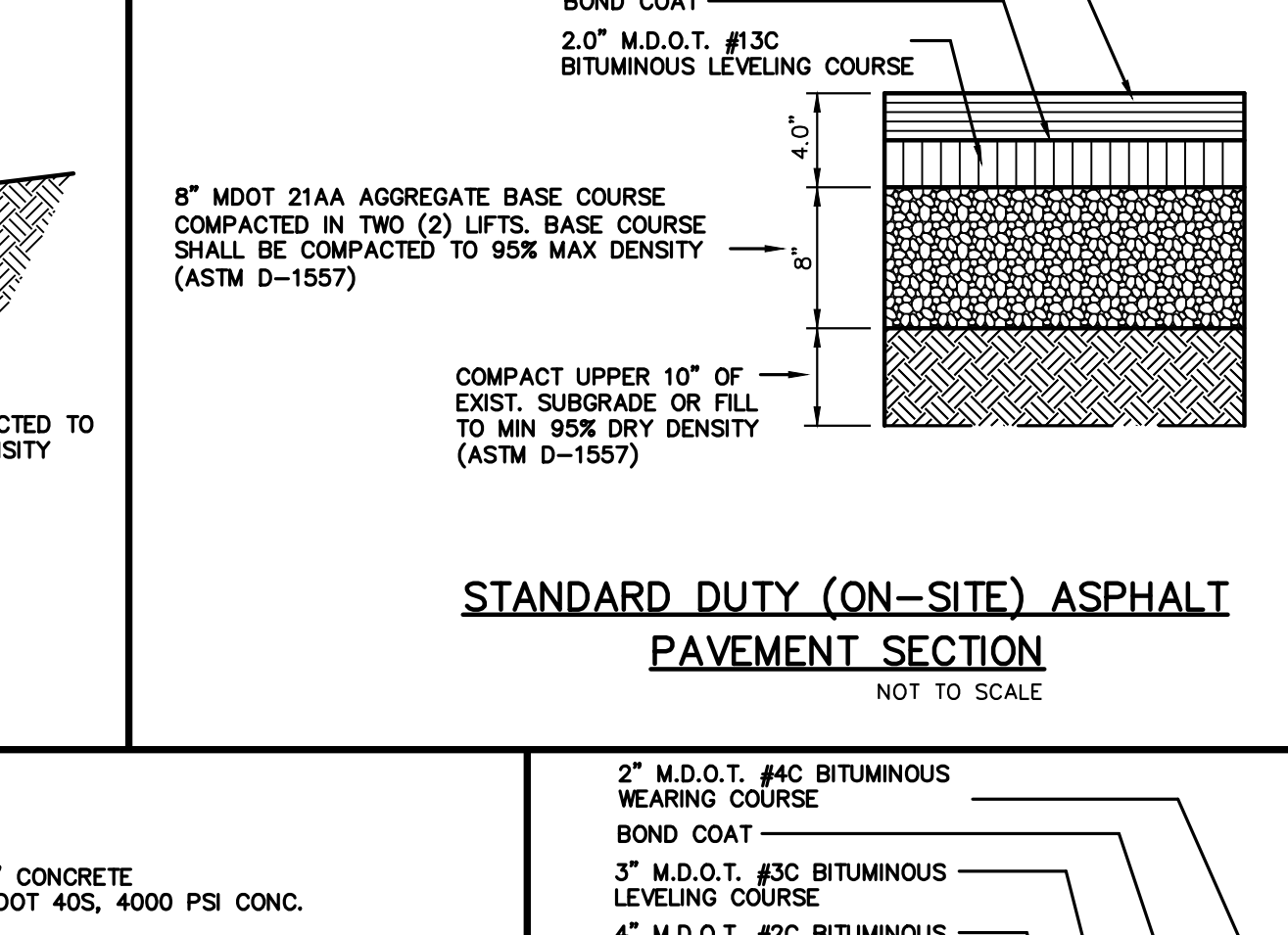
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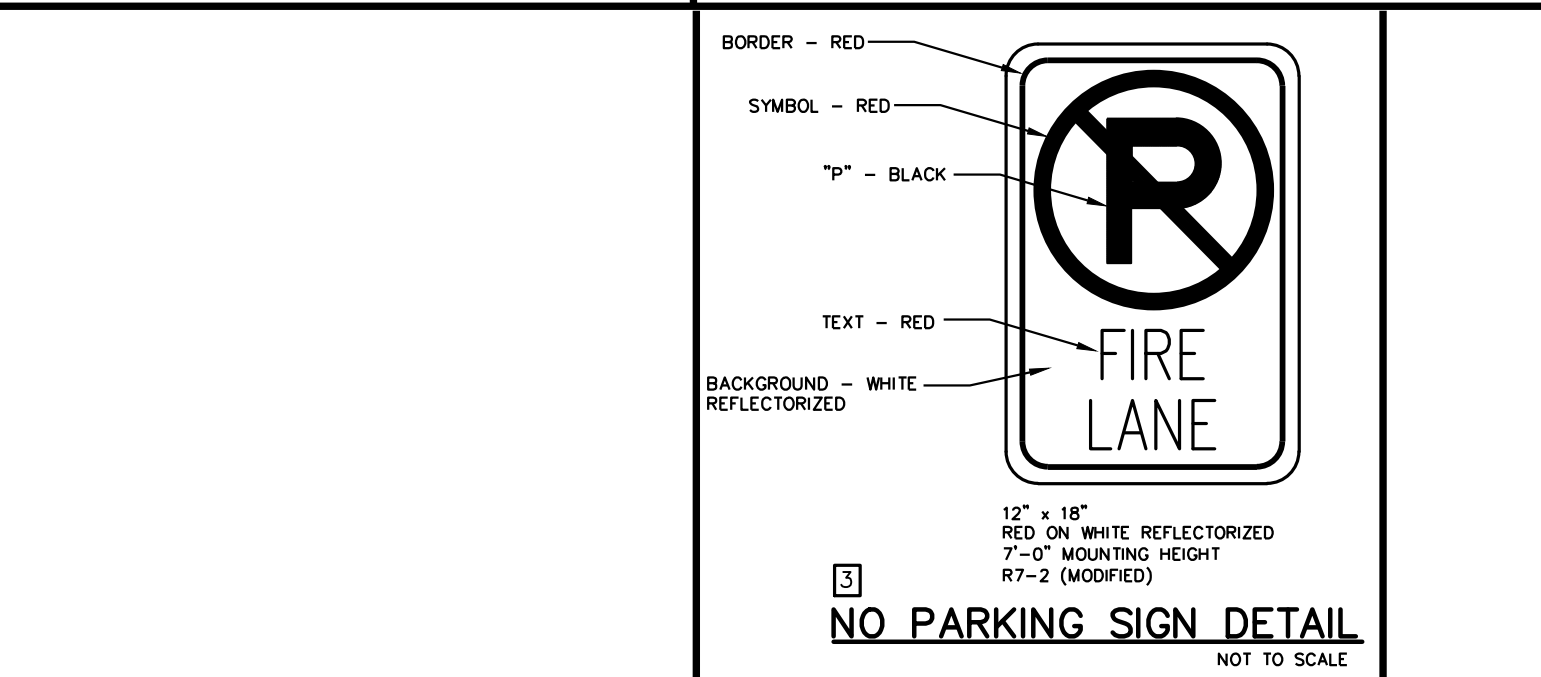
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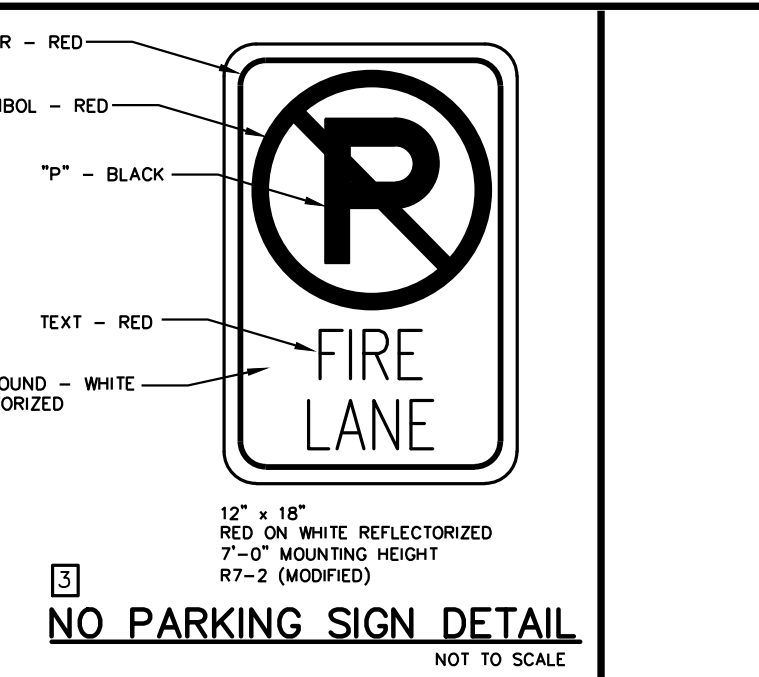
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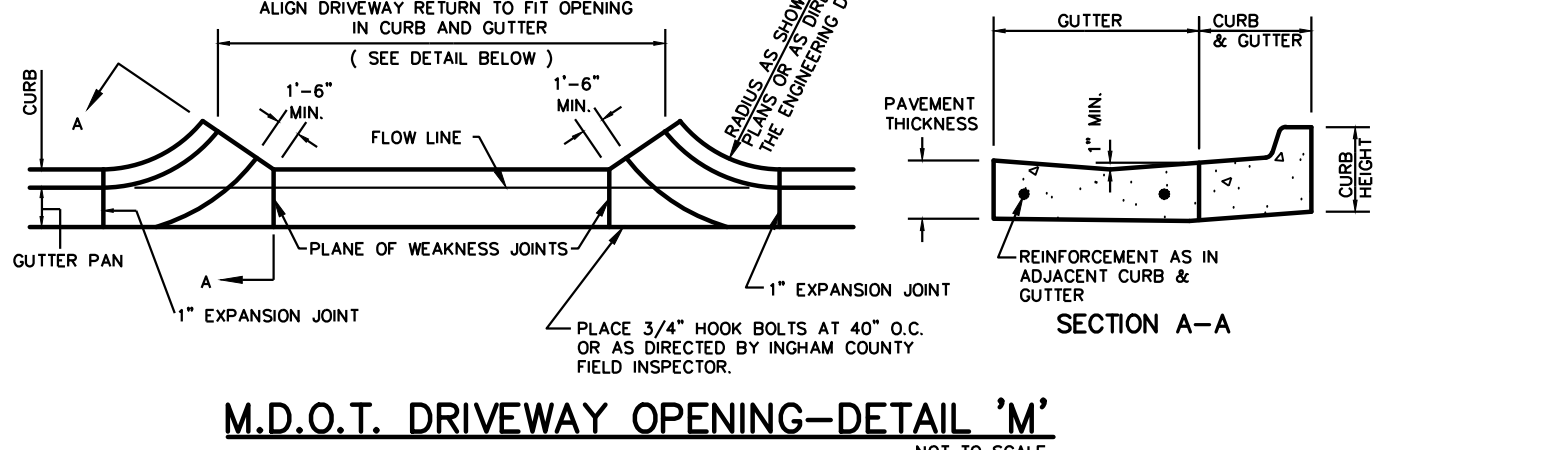
**STANDARD DUTY (ON-SITE) ASPHALT
PAVEMENT SECTION**
NOT TO SCALE



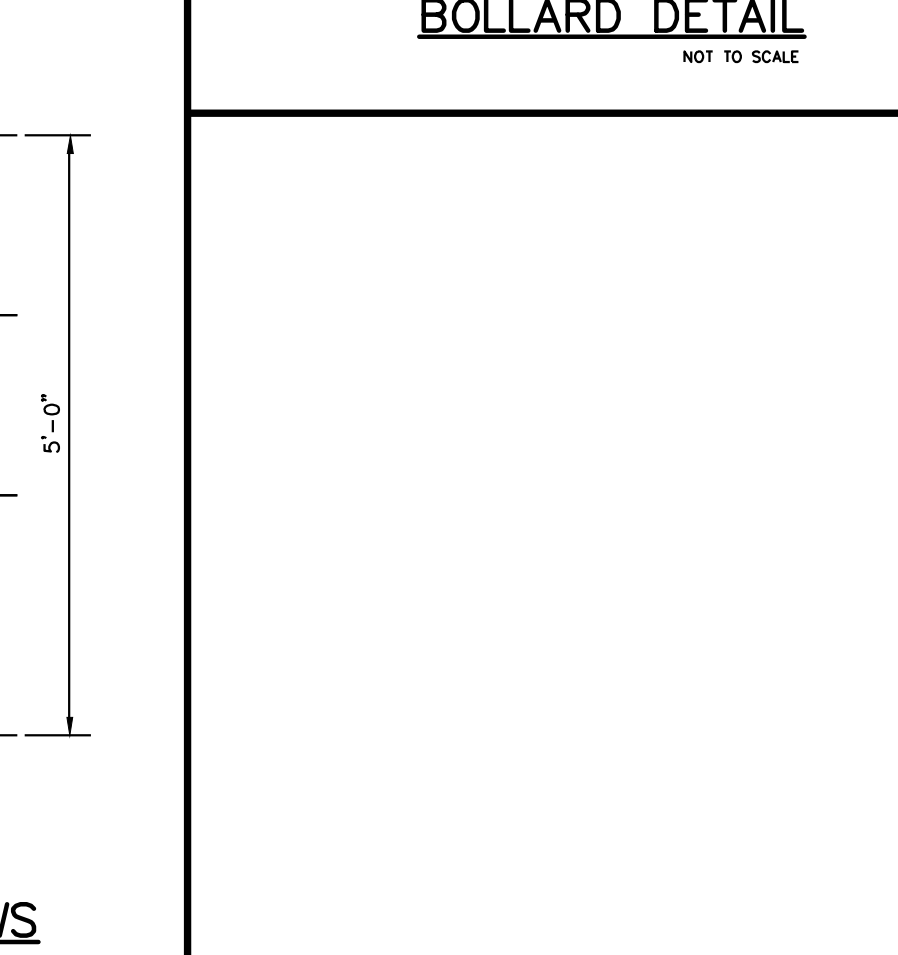
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SIGN DETAIL**
NOT TO SCALE



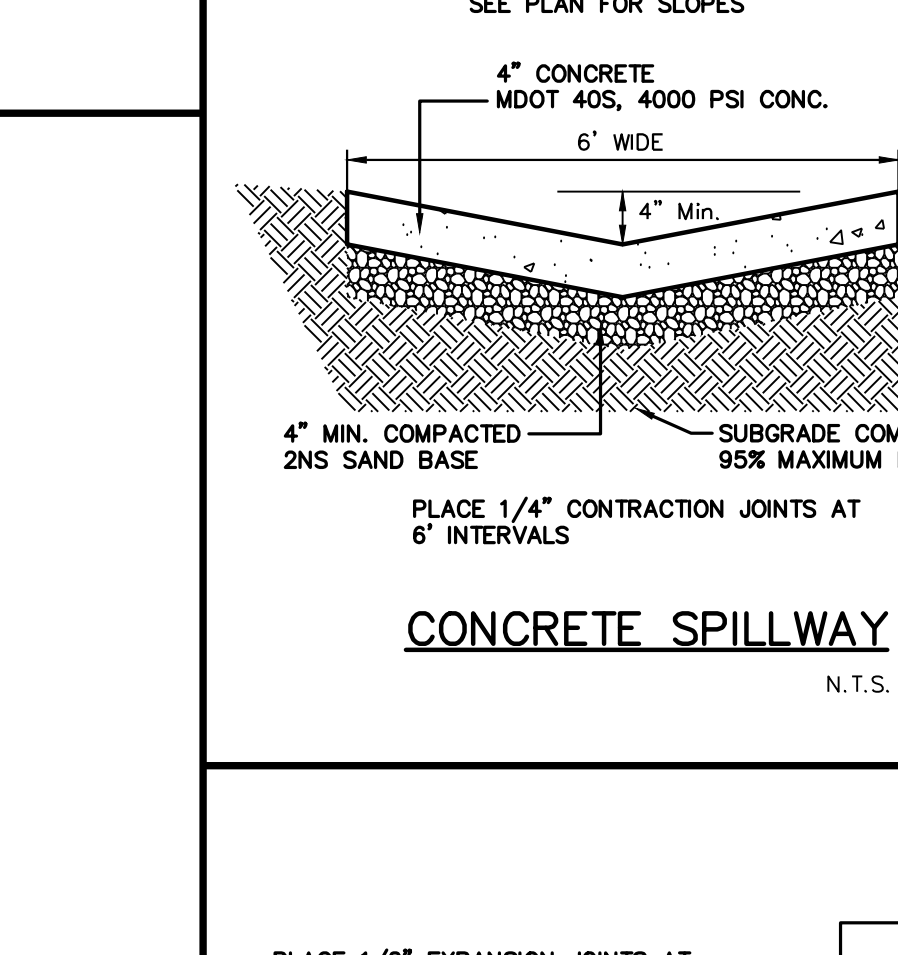
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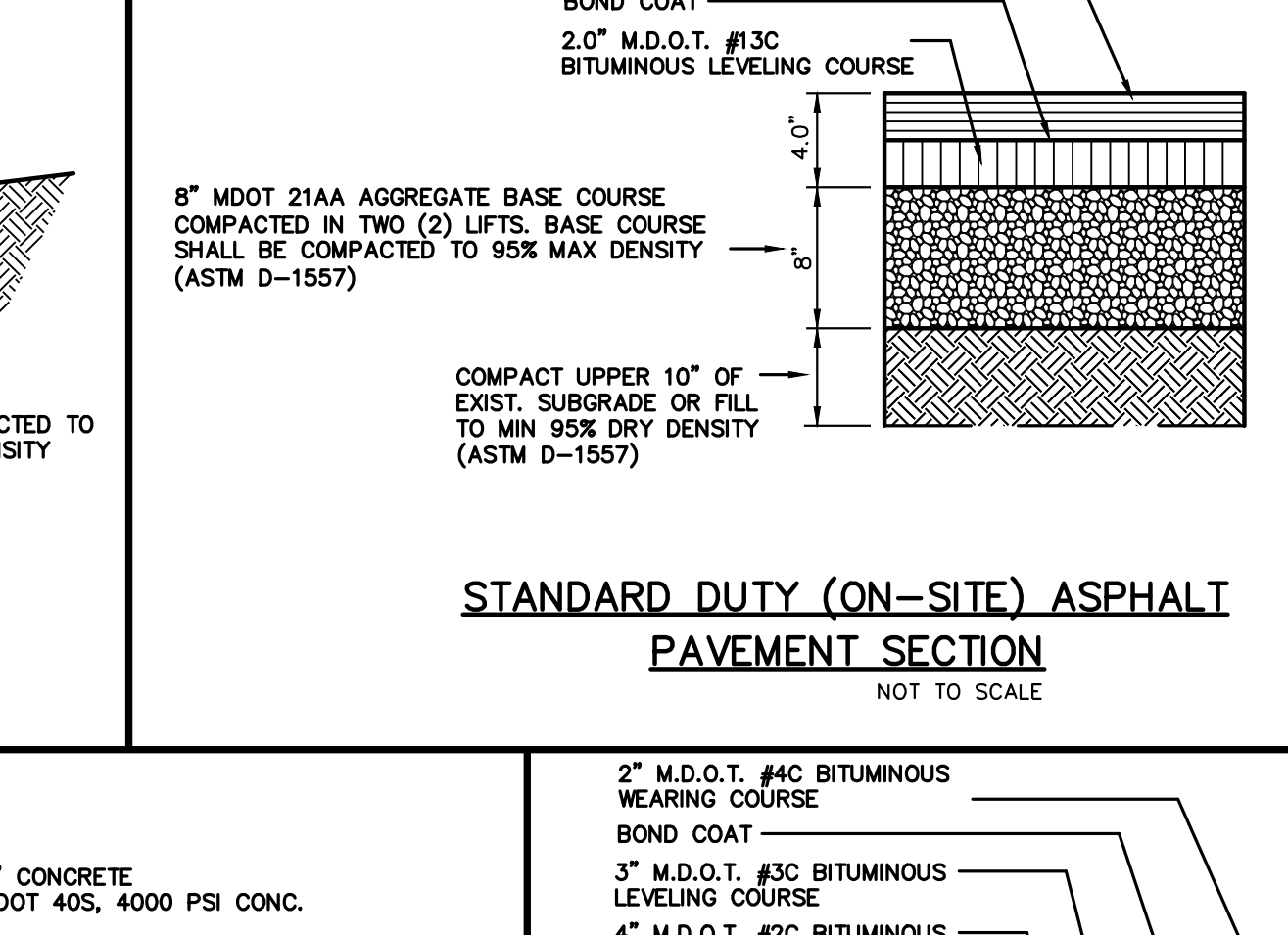
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NOT TO SCALE



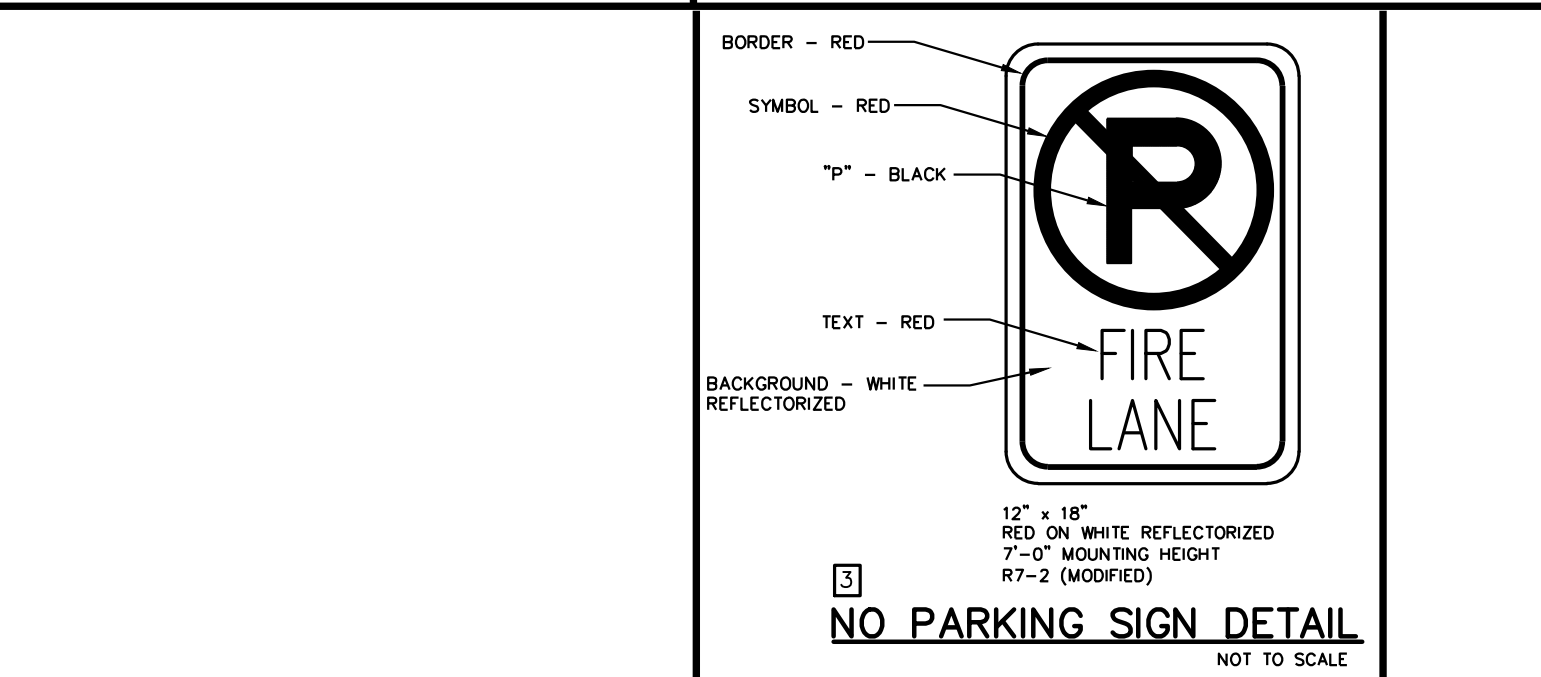
BOLLARD DETAIL
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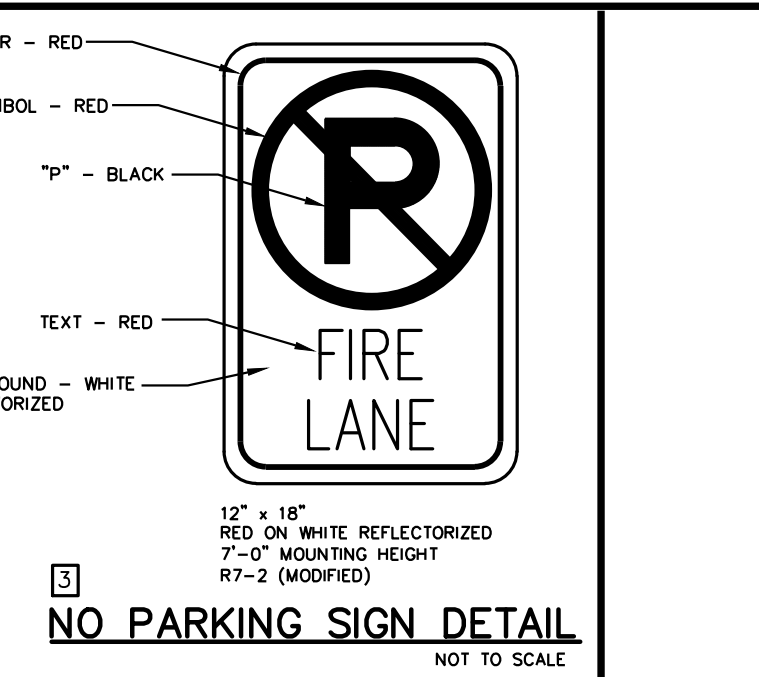
CONCRETE SPILLWAY
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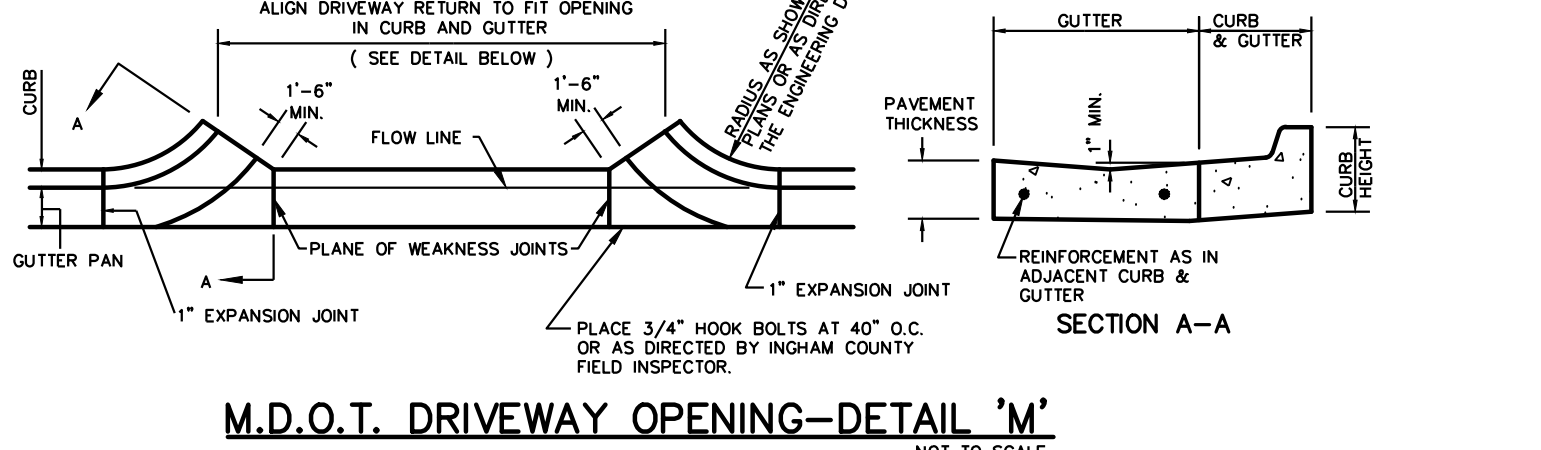
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PAVEMENT SECTION**
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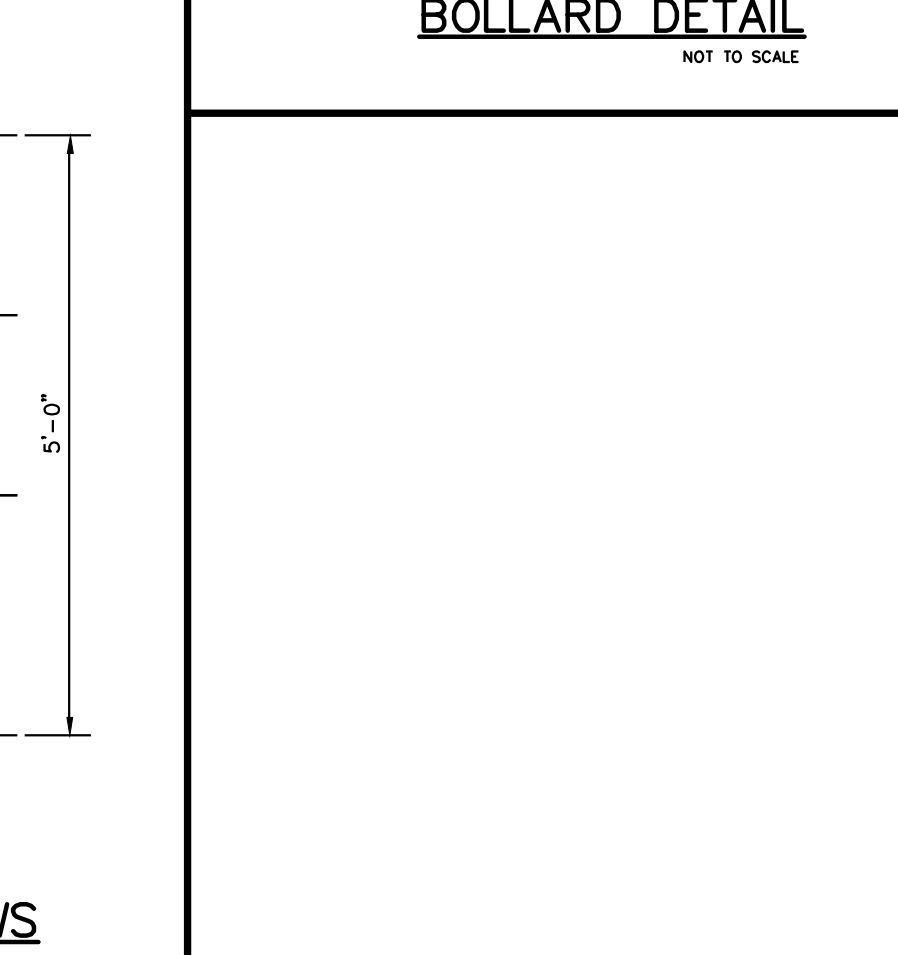
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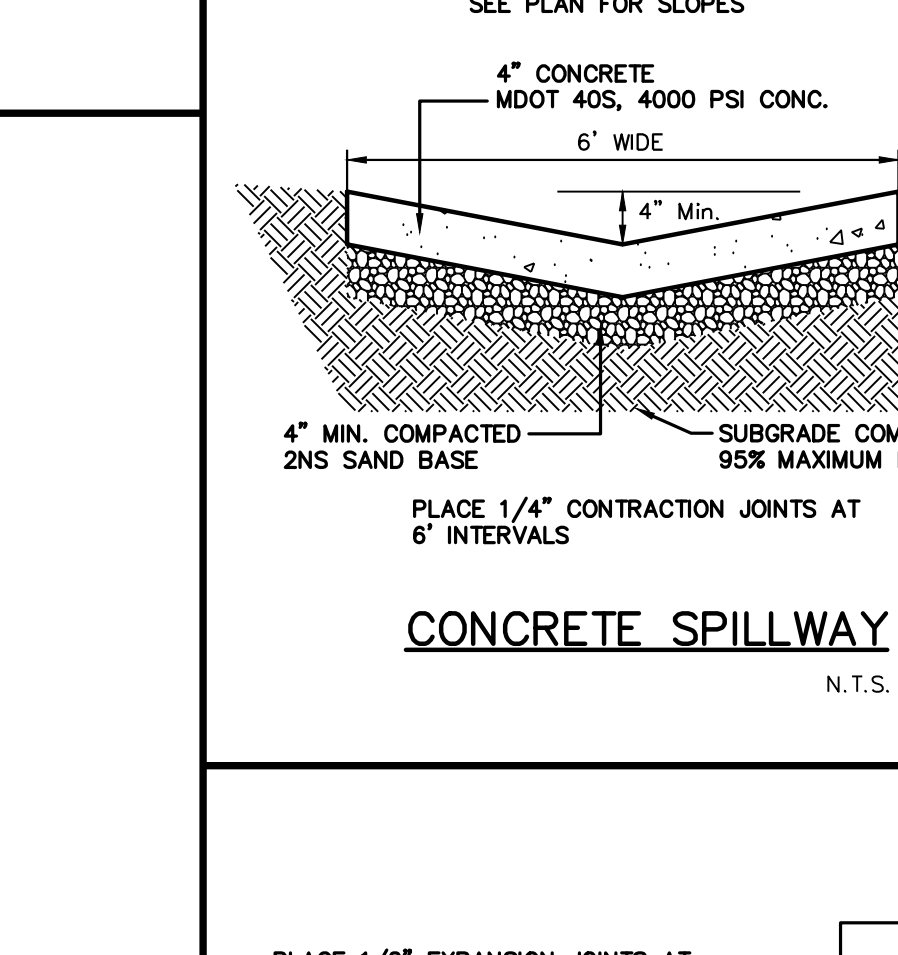
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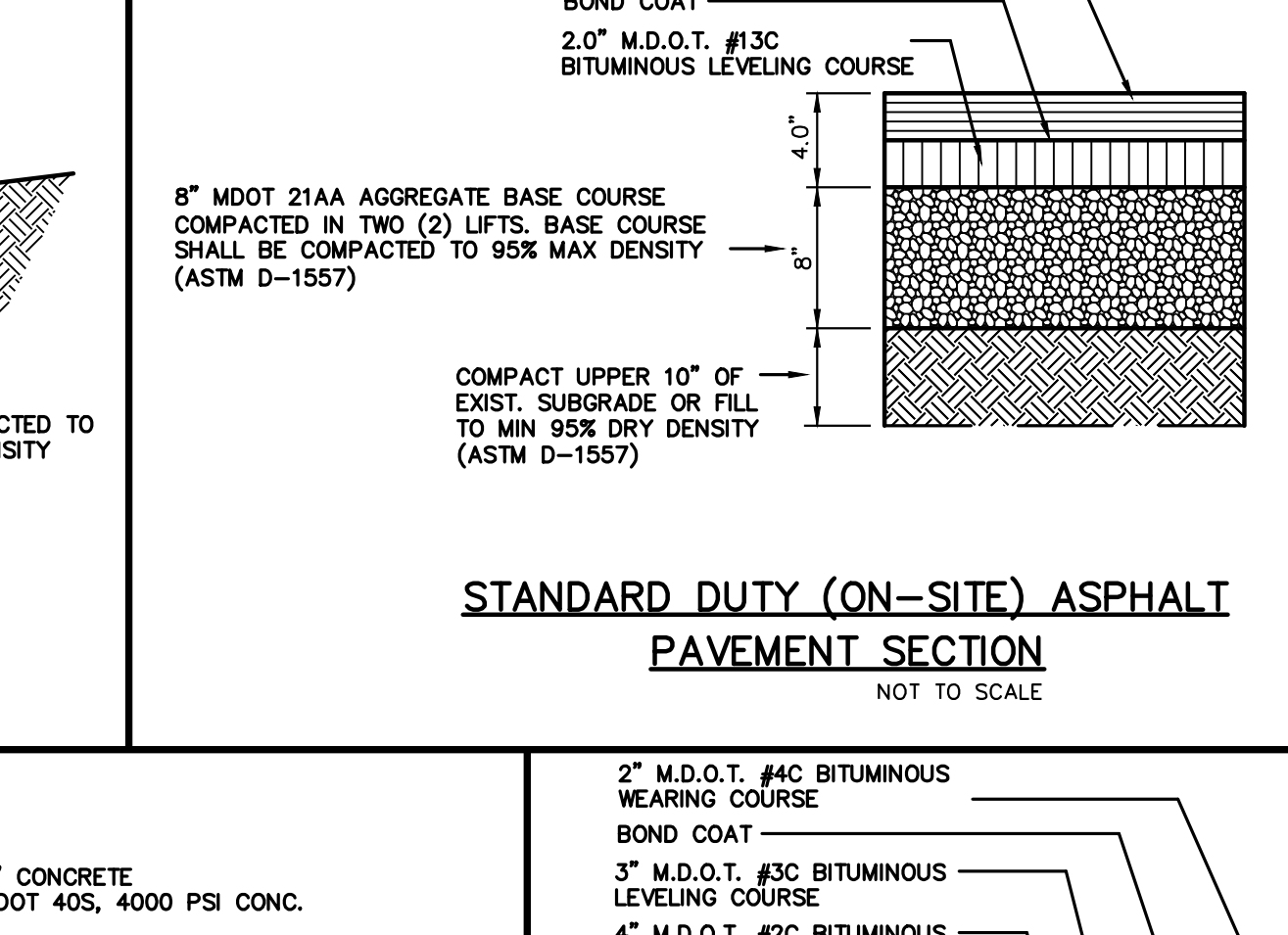
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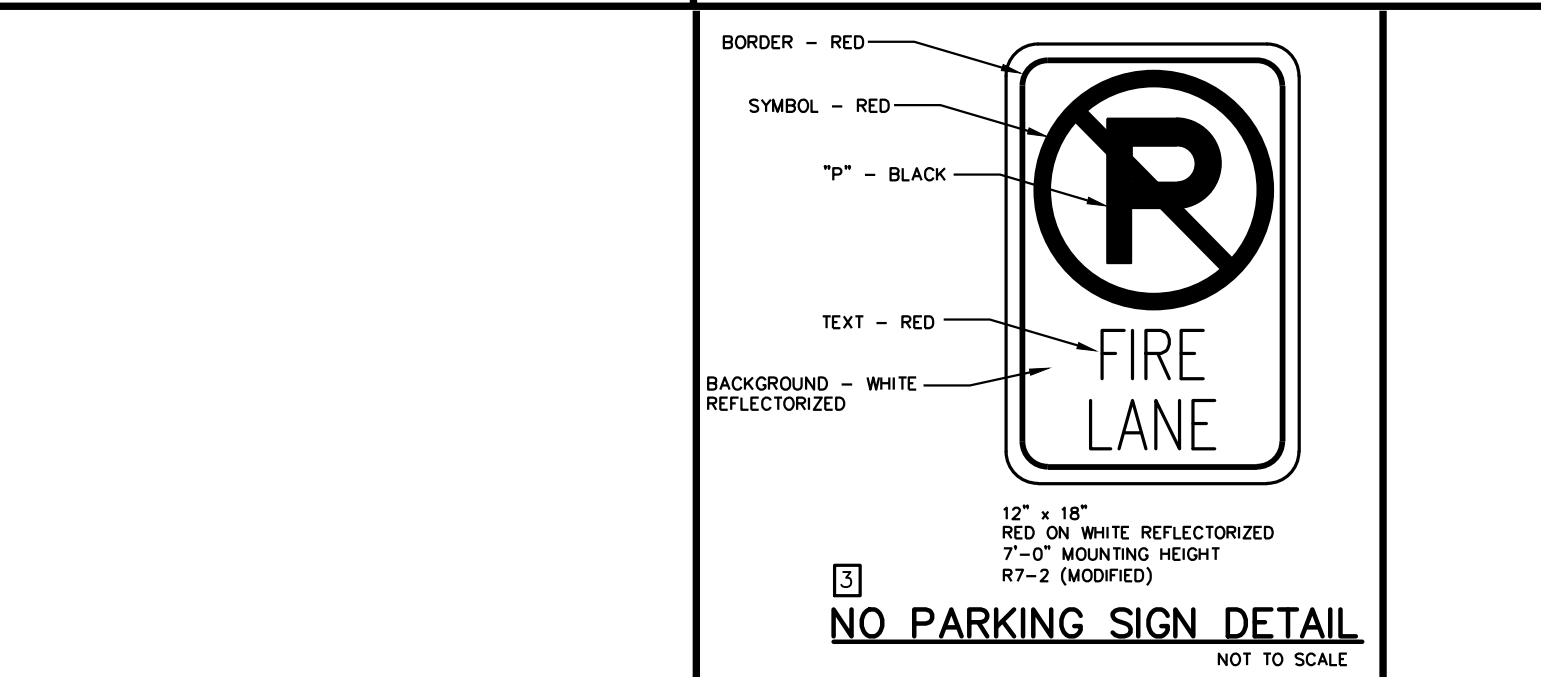
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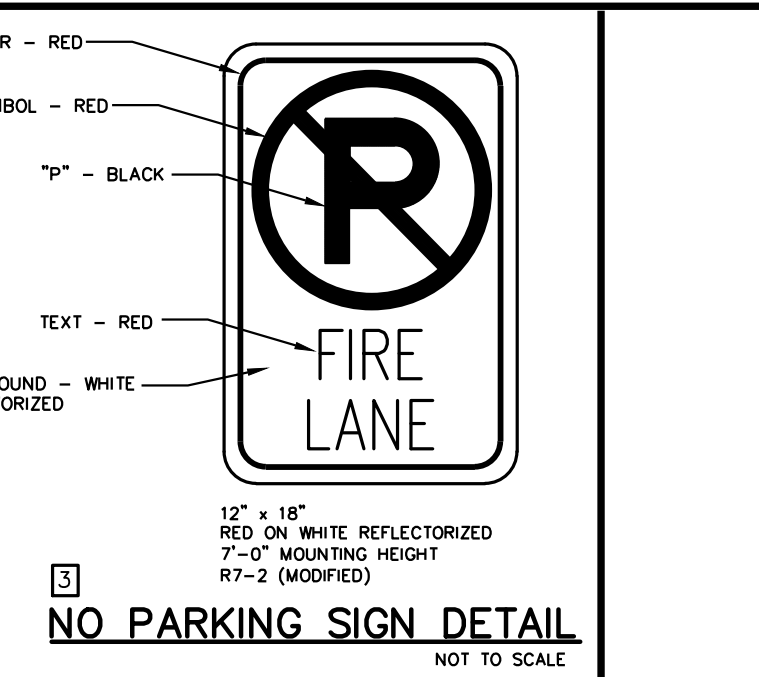
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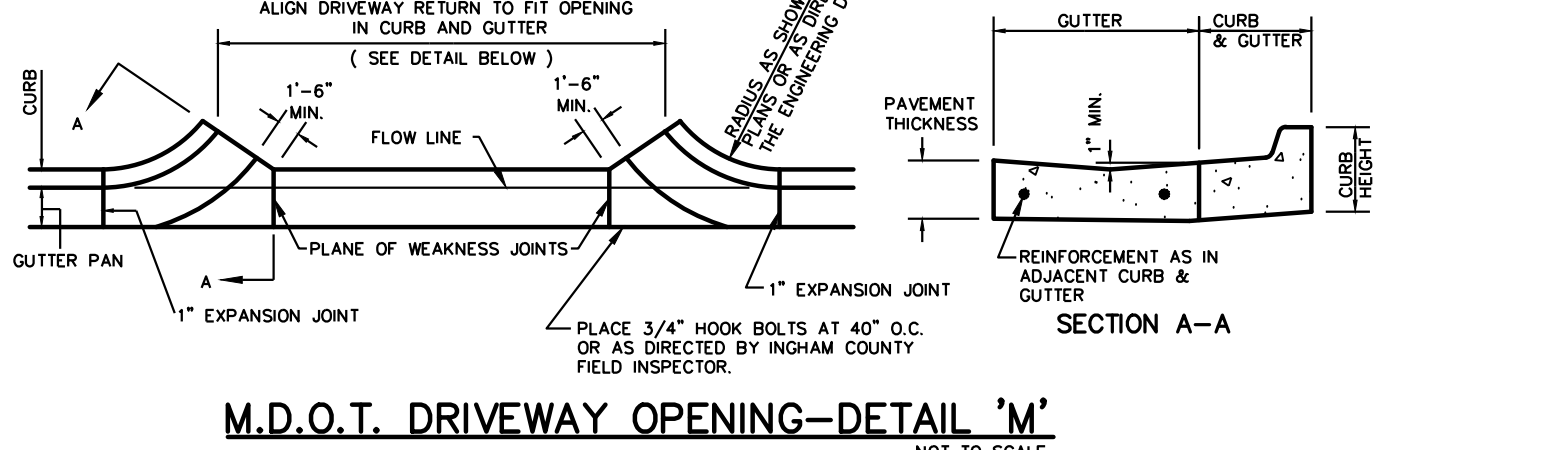
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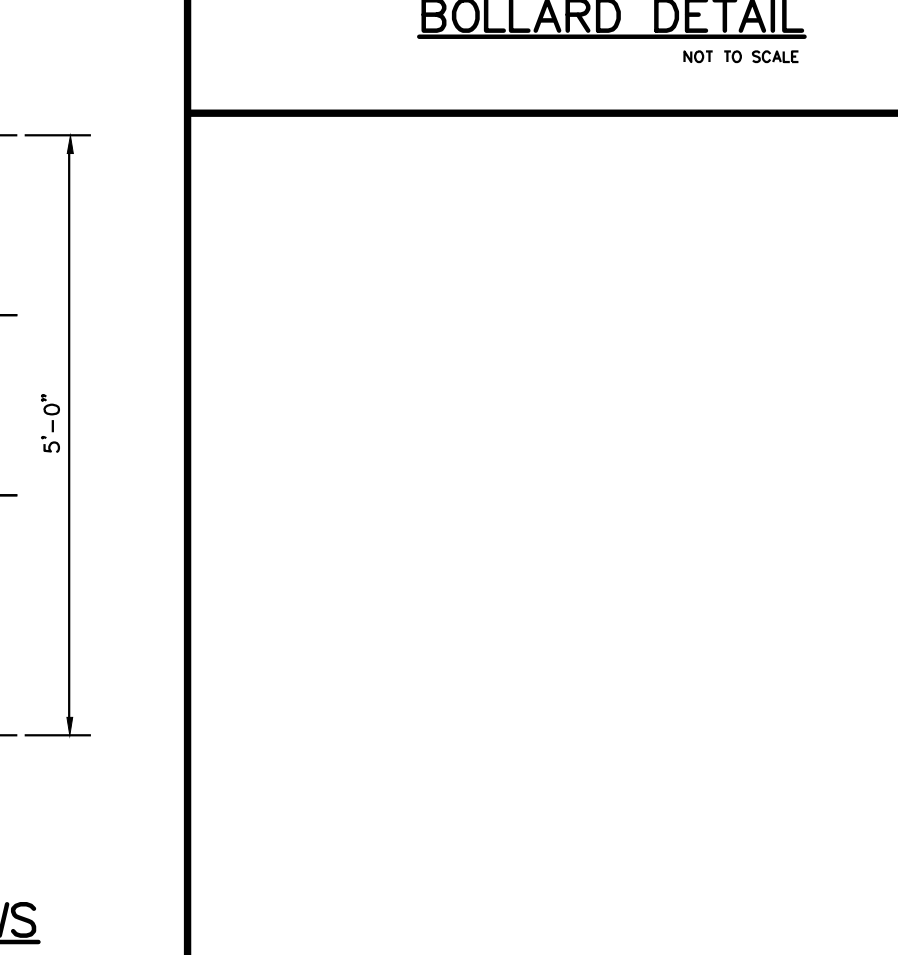
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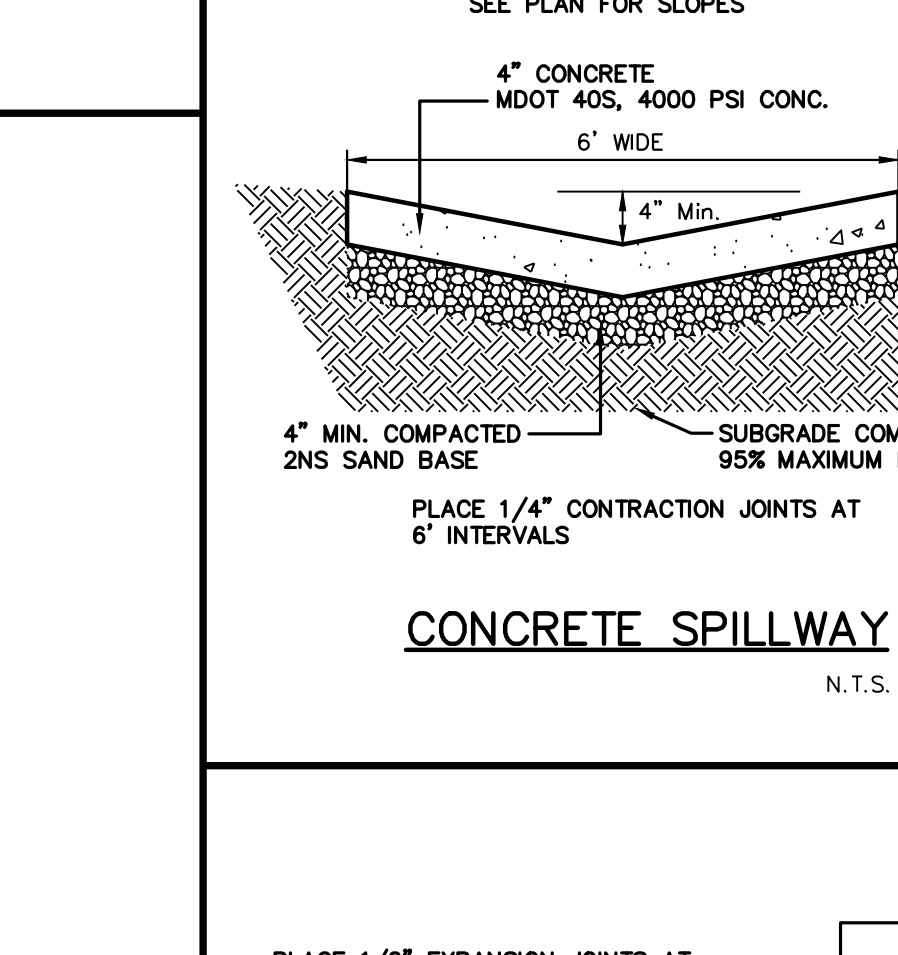
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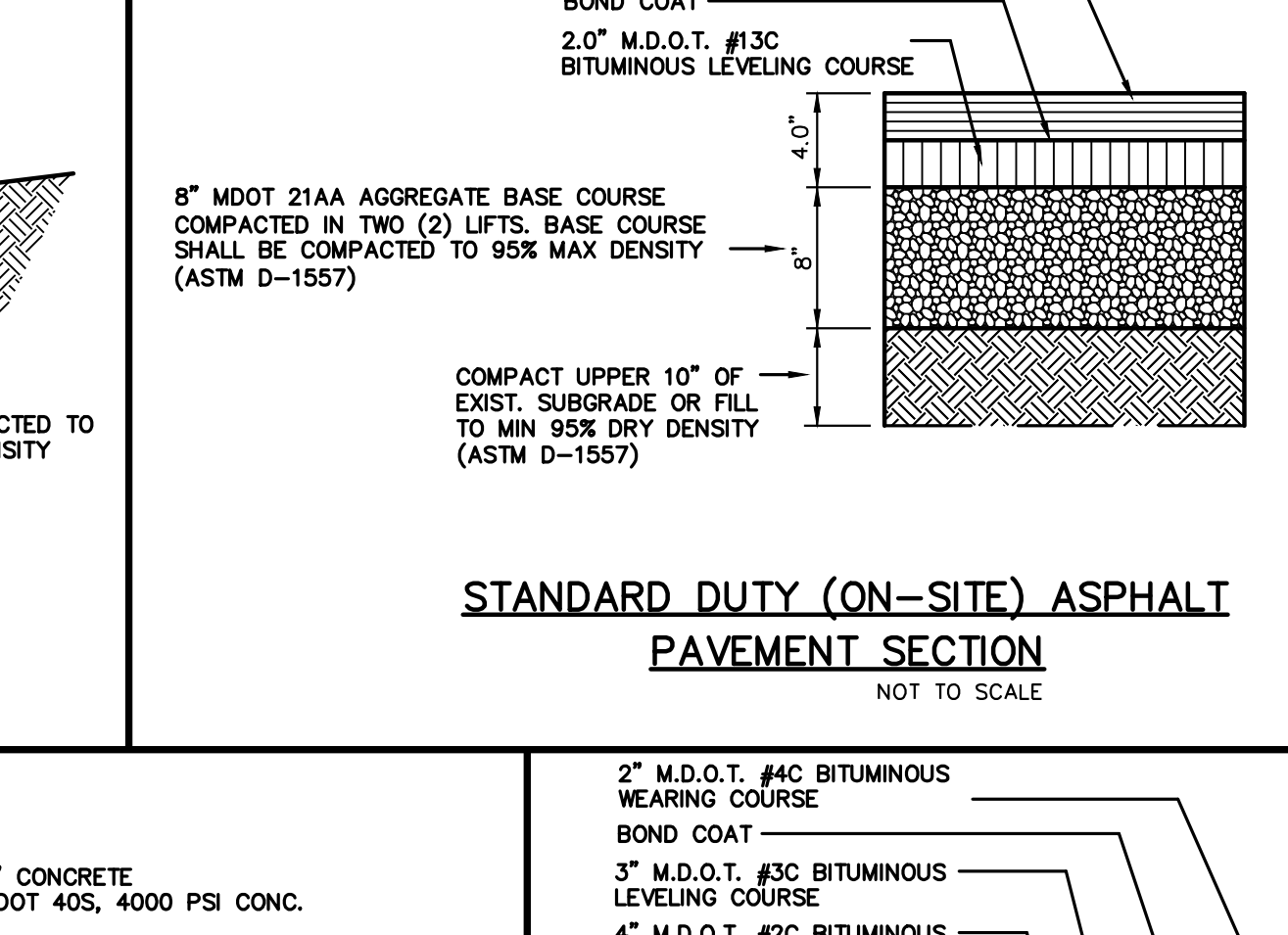
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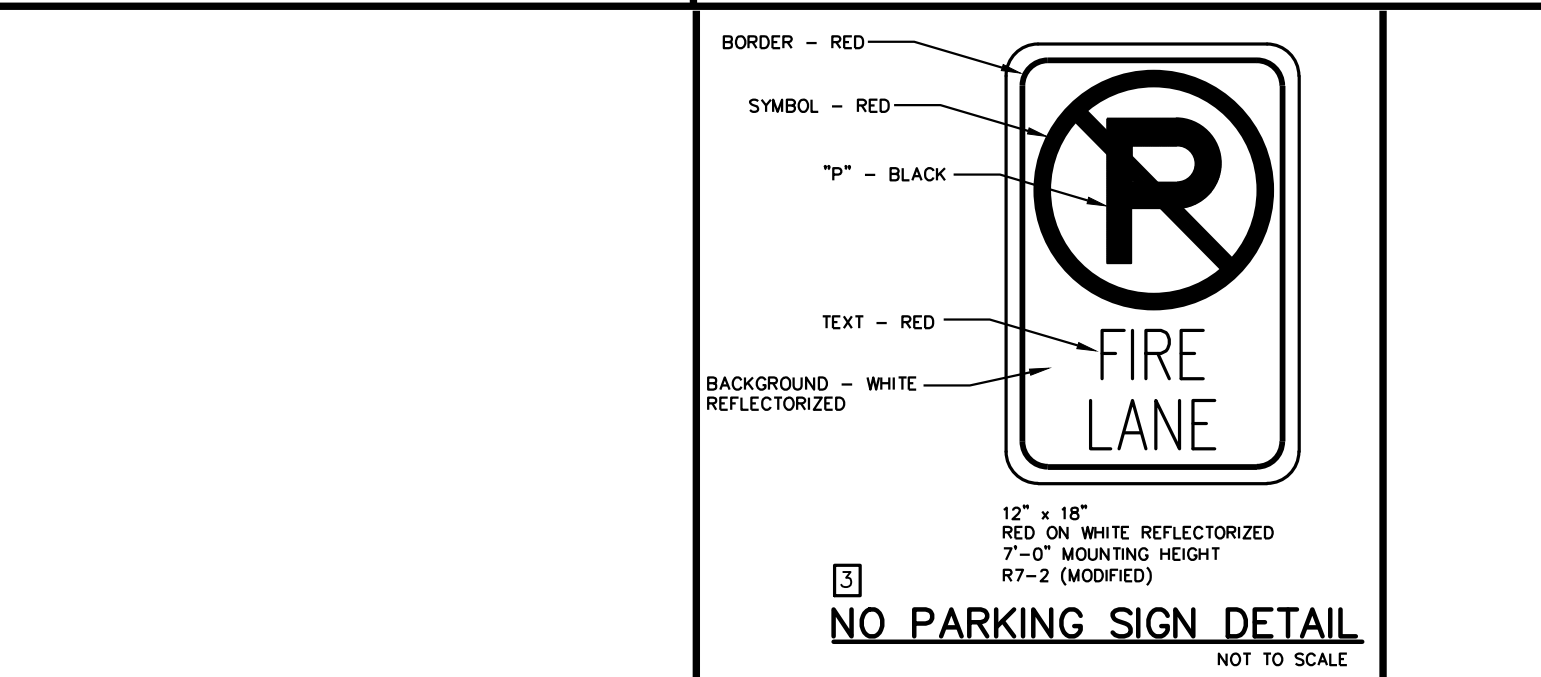
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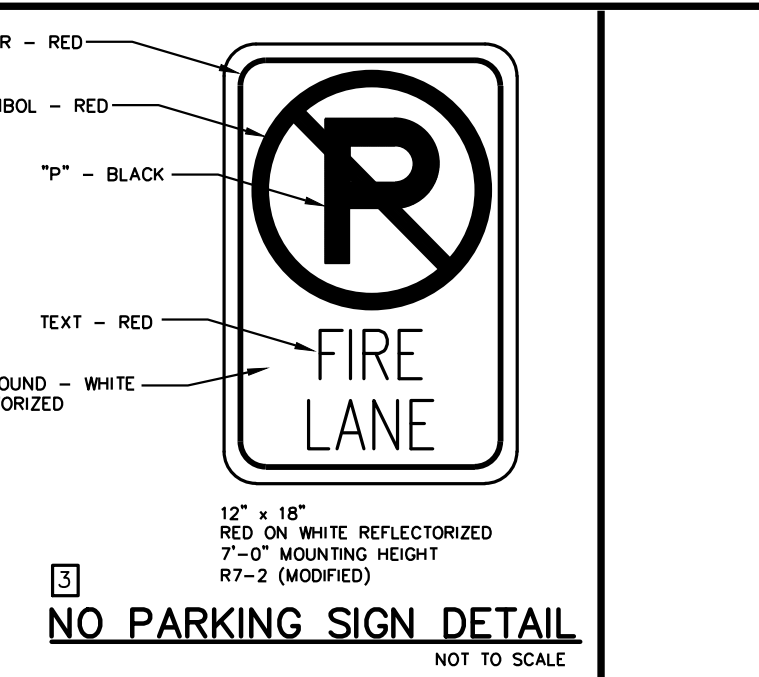
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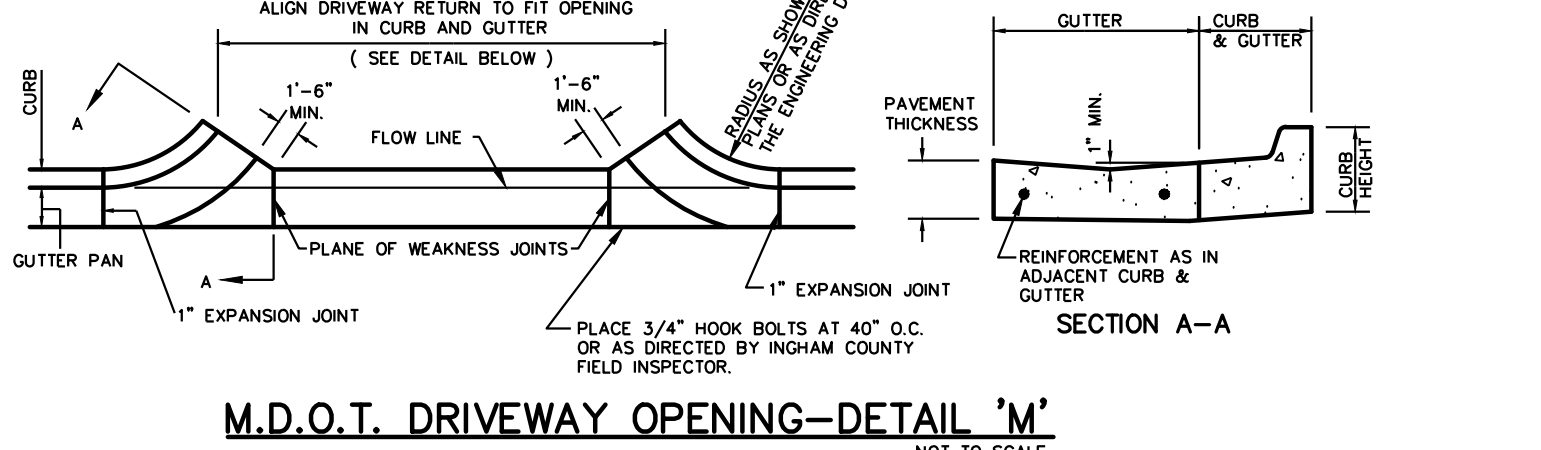
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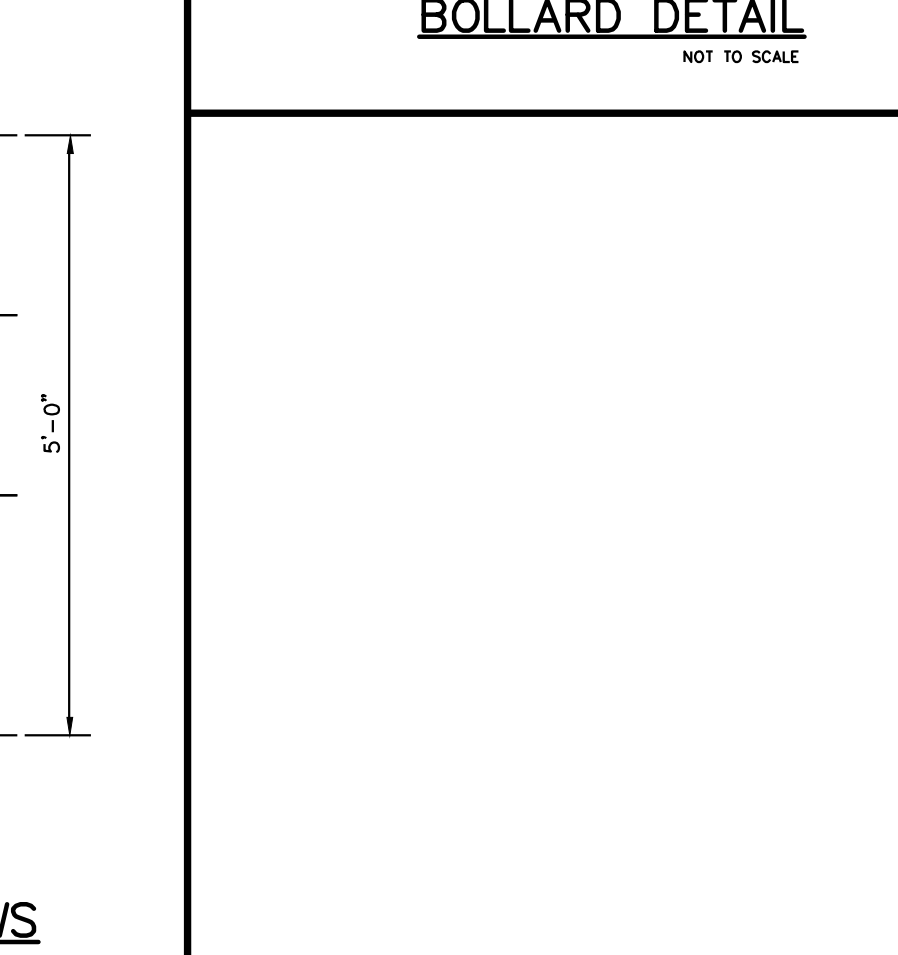
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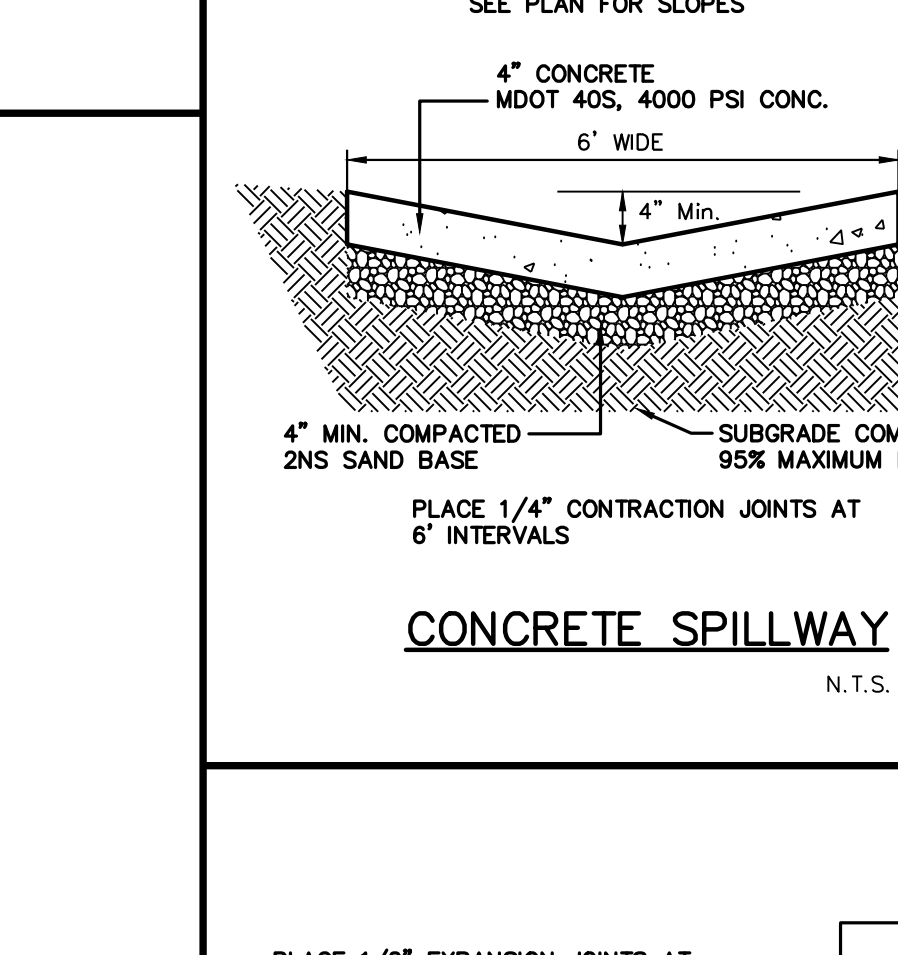
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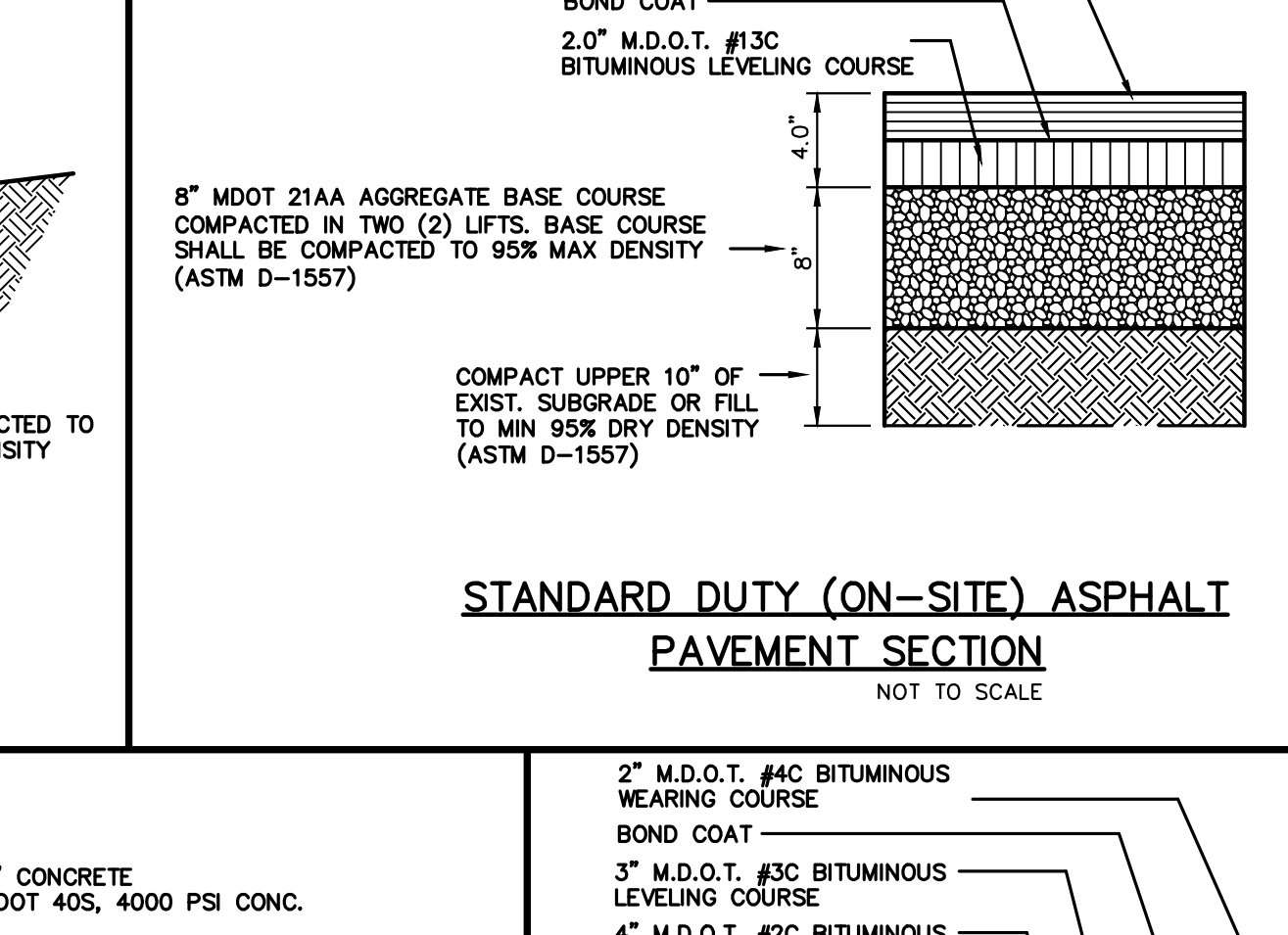
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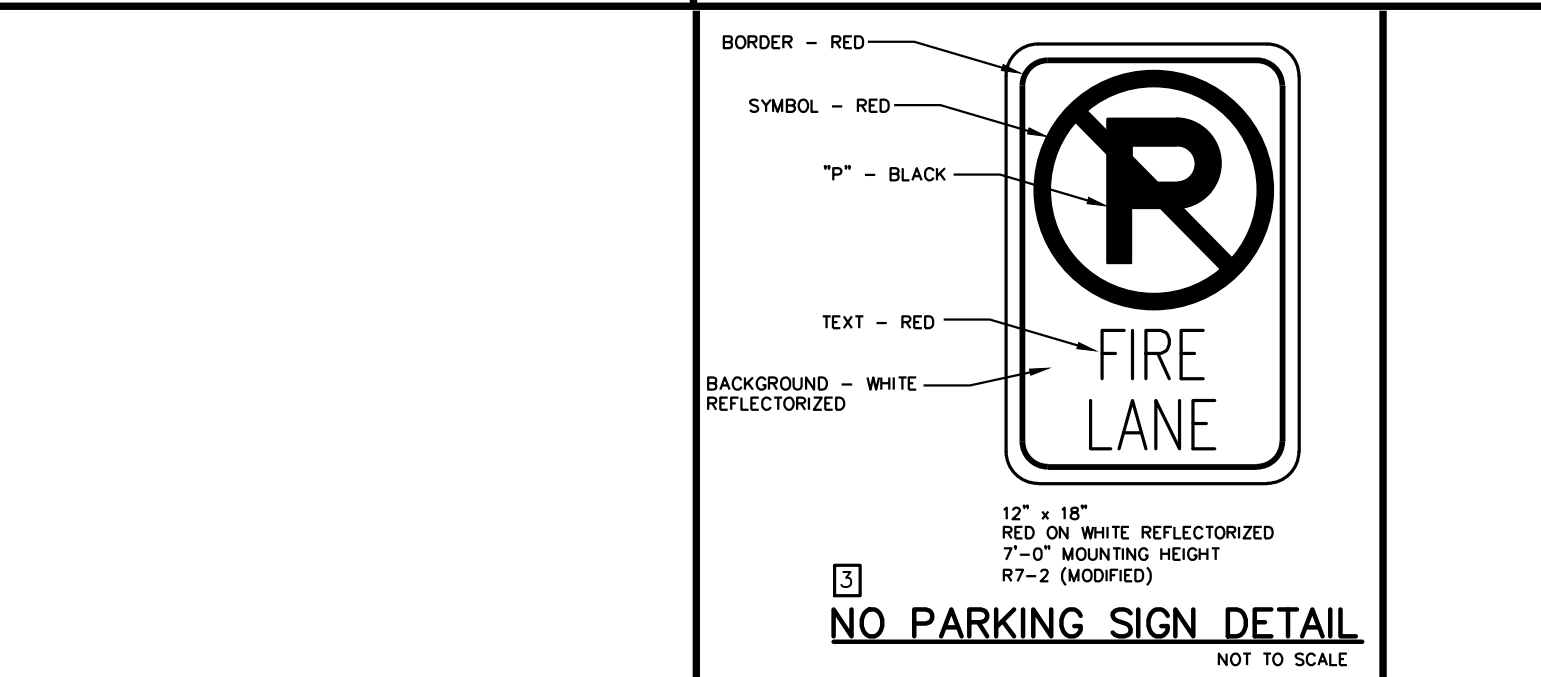
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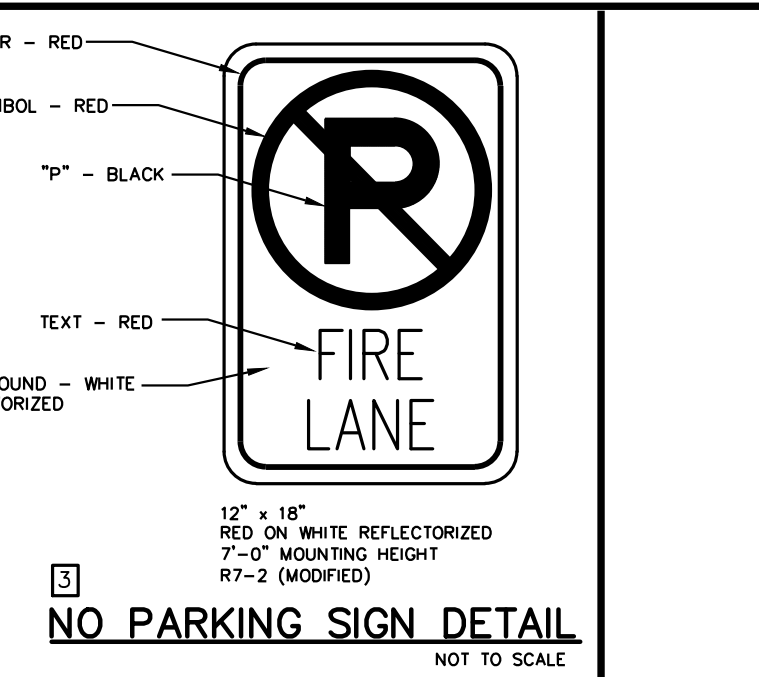
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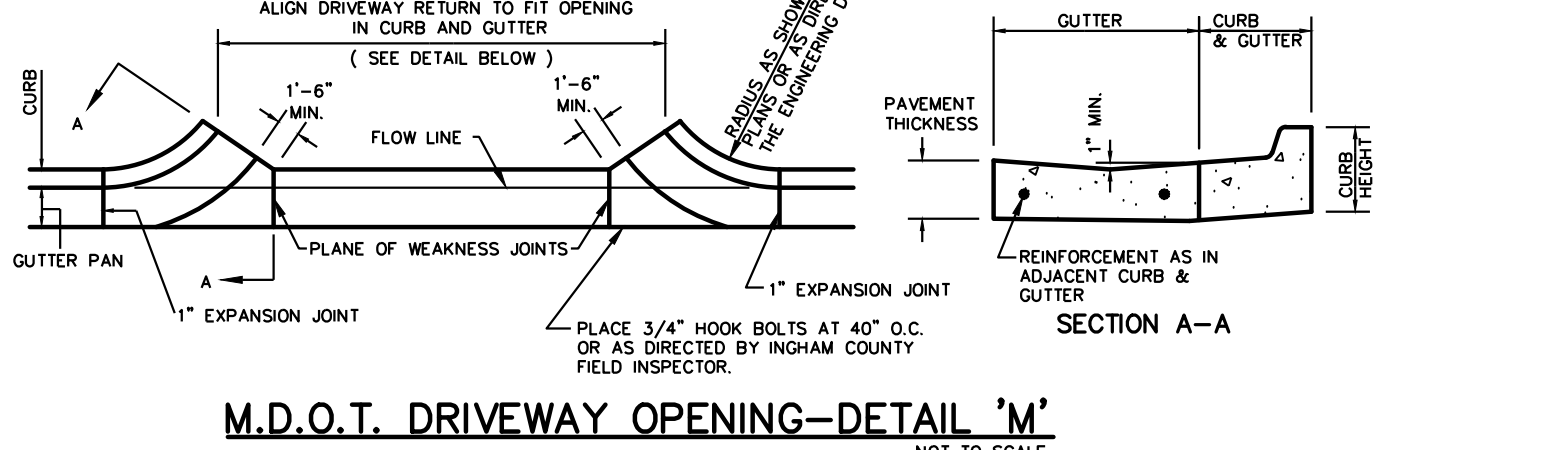
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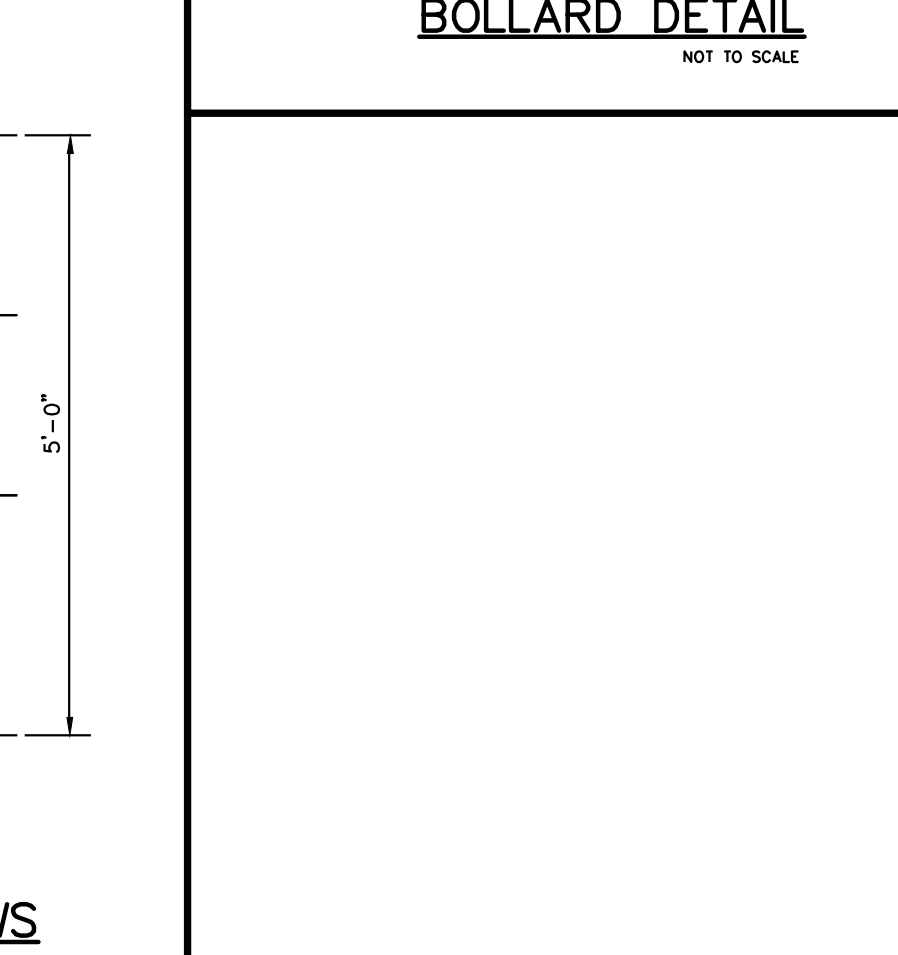
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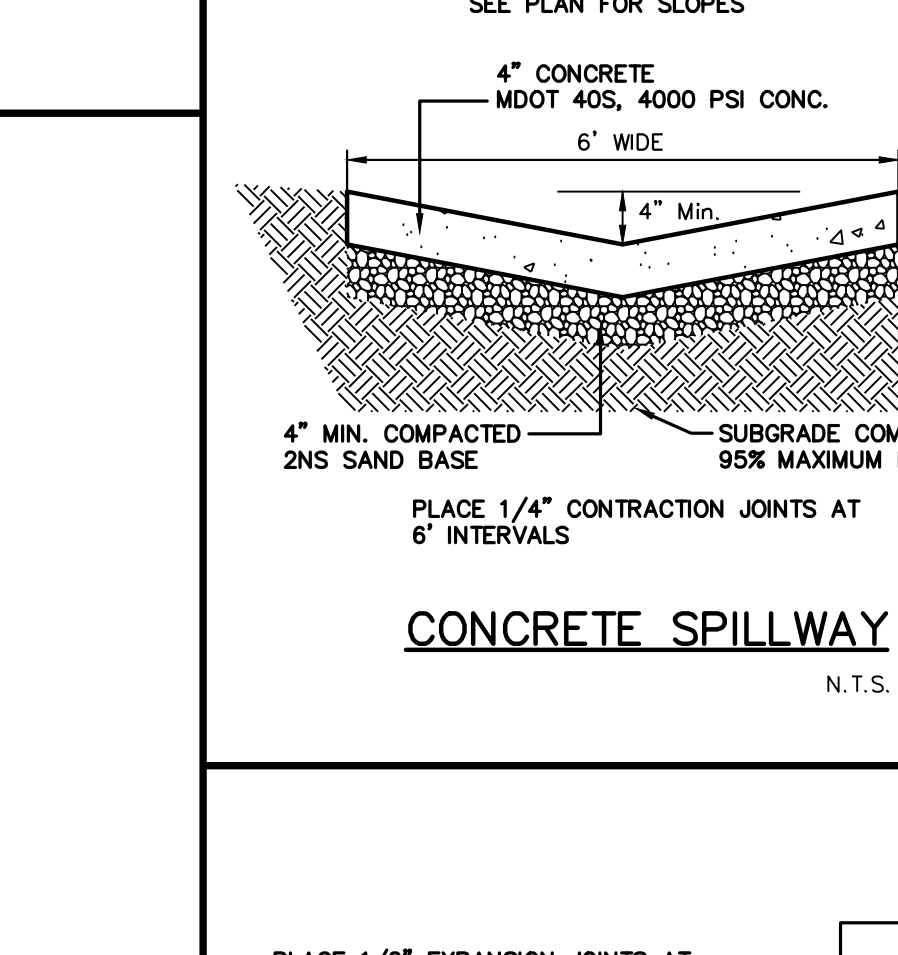
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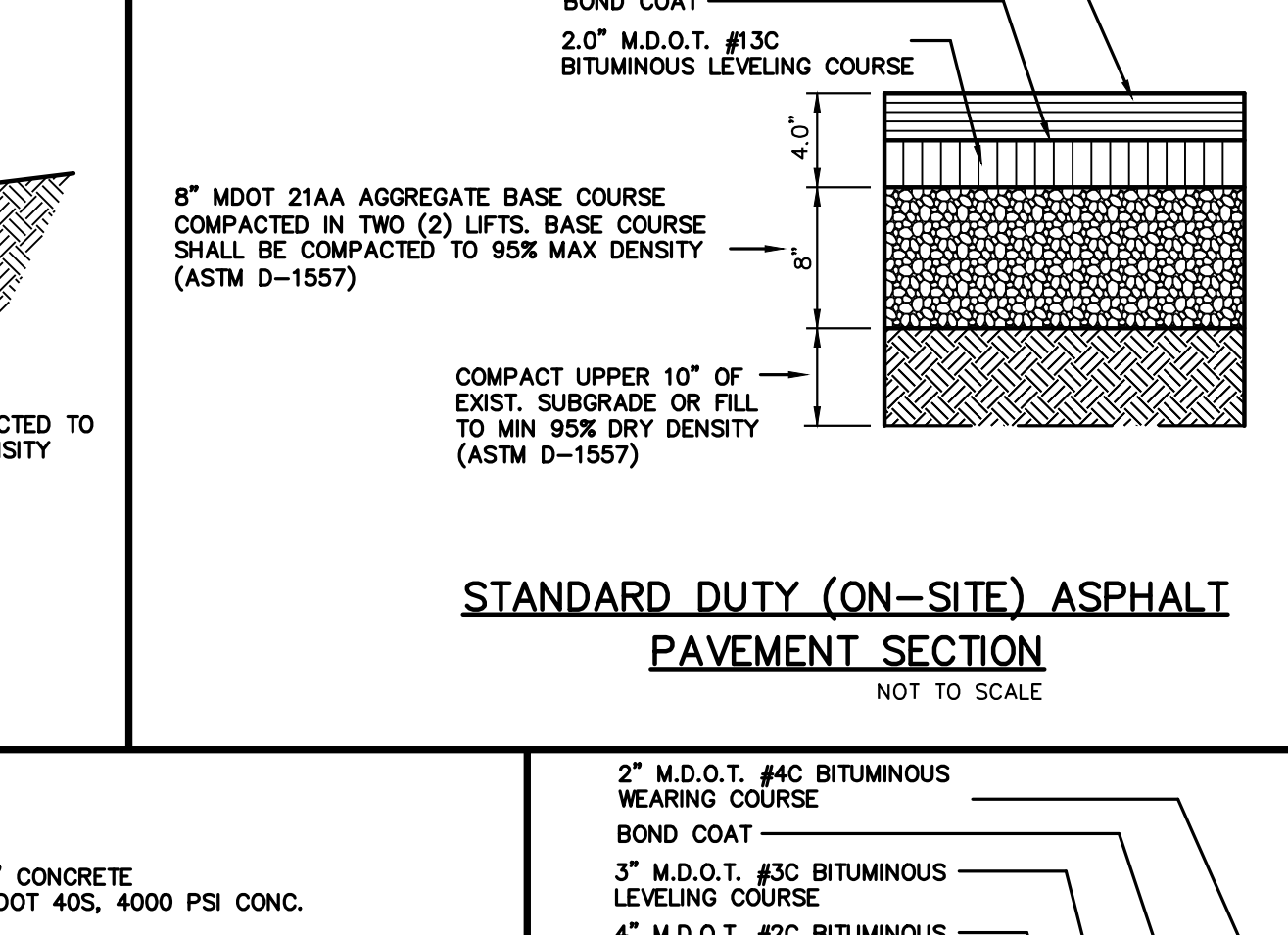
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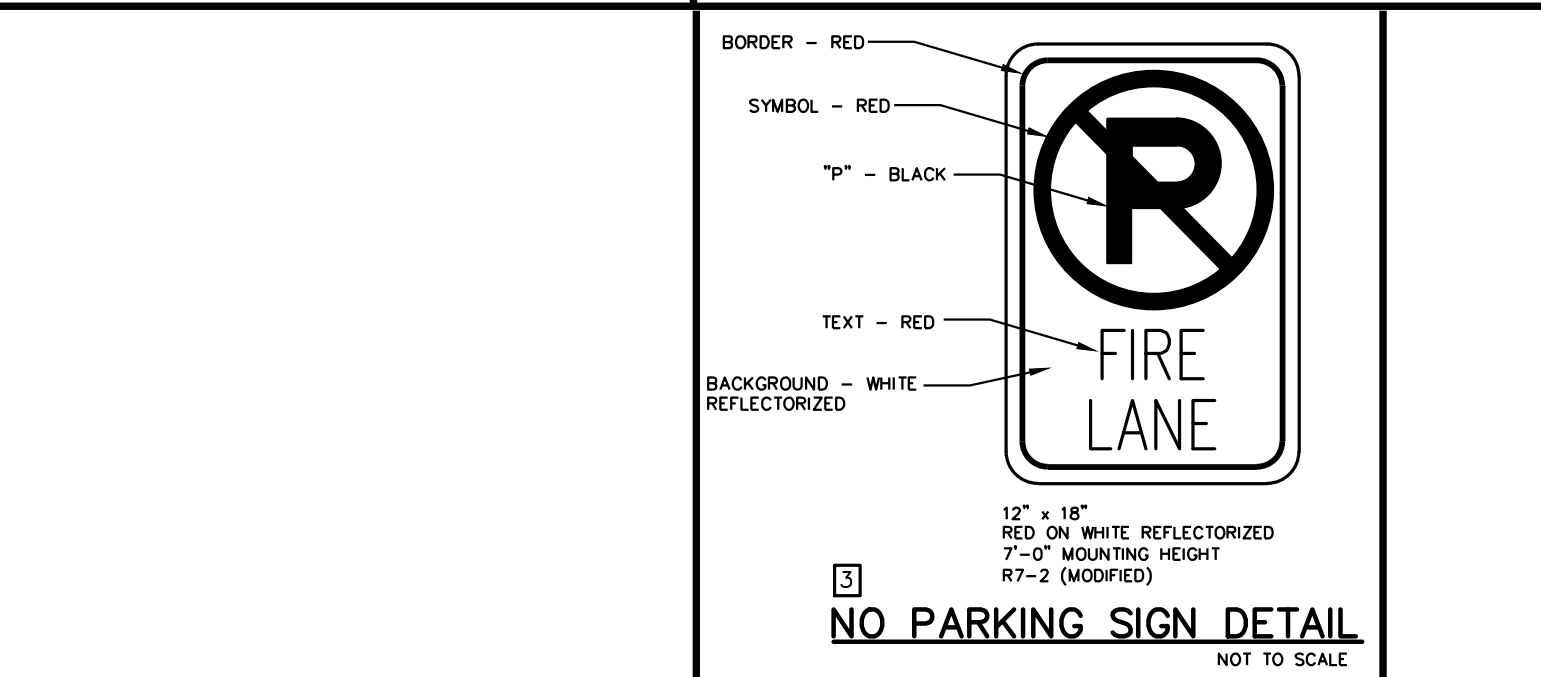
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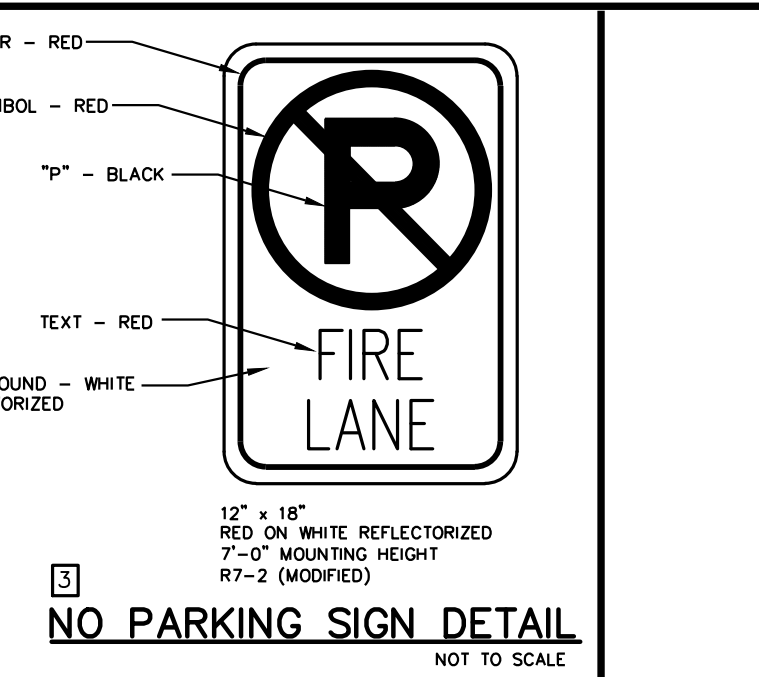
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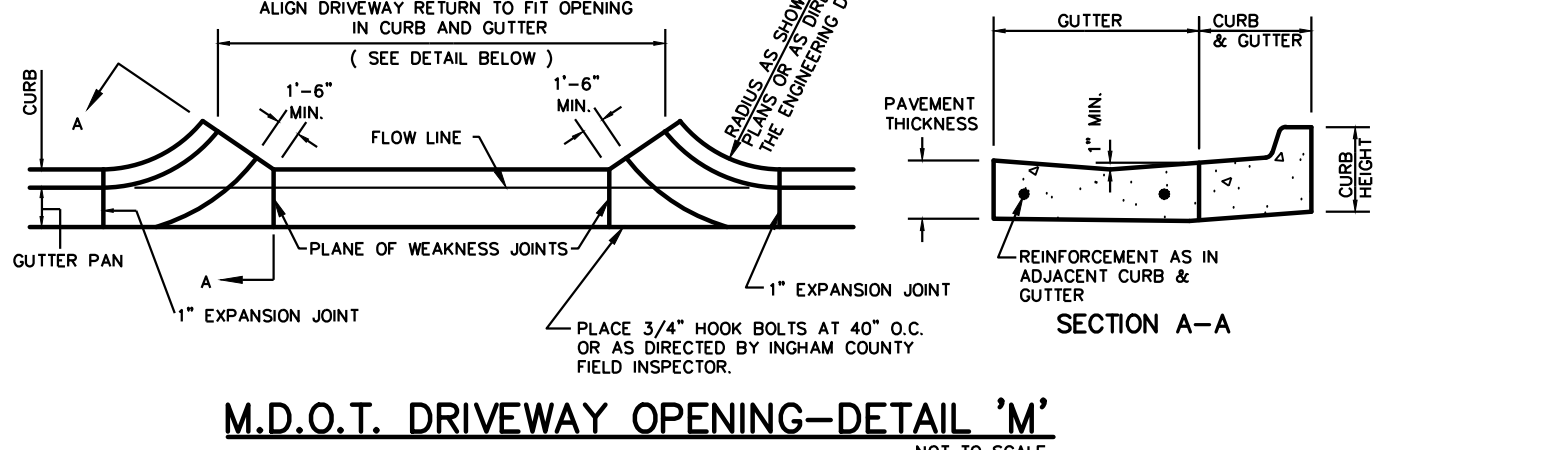
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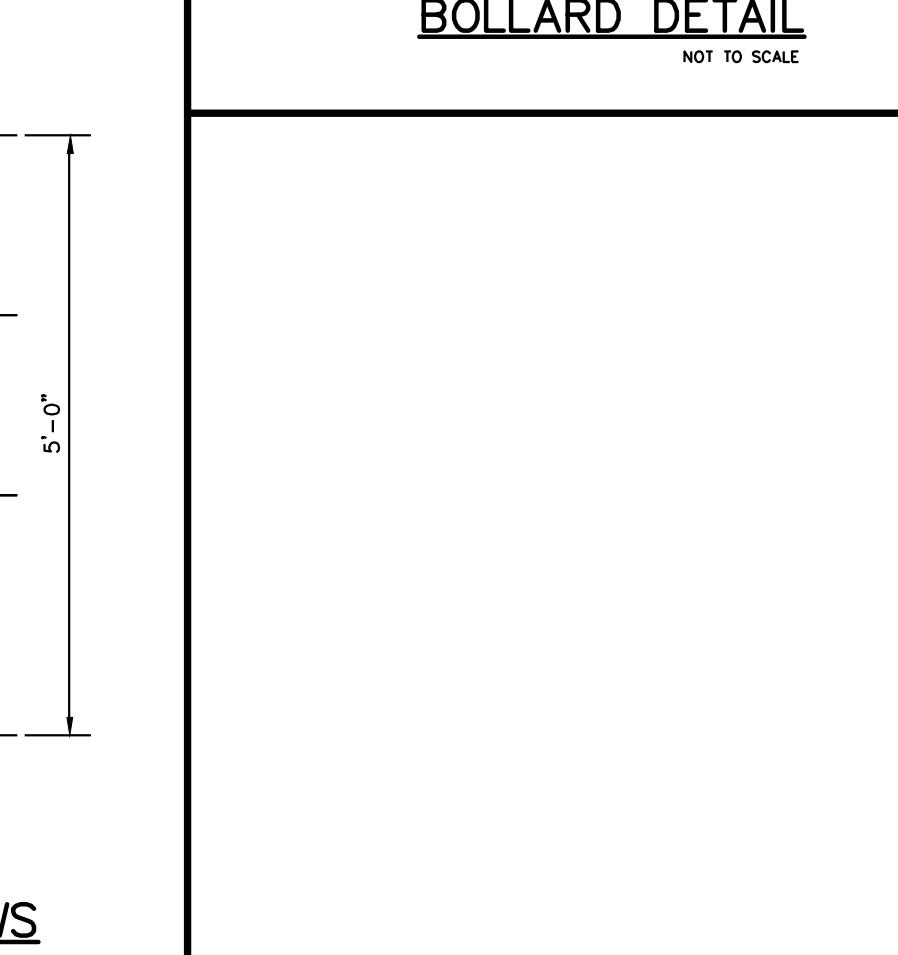
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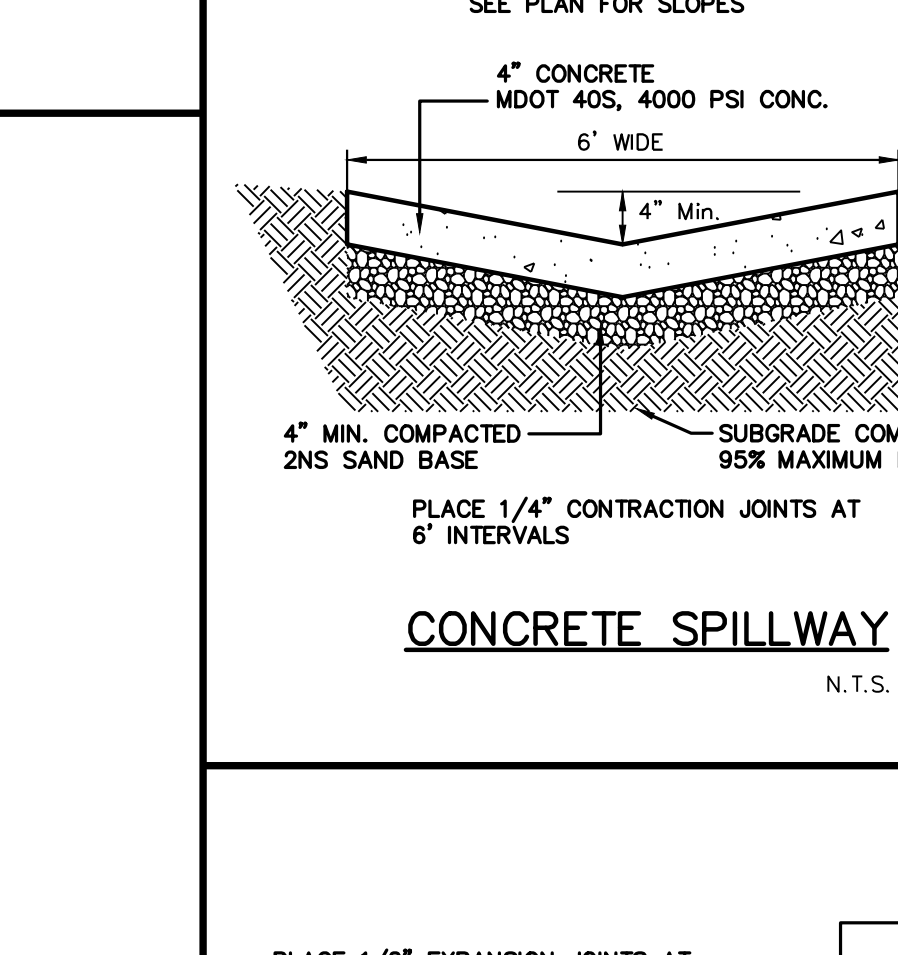
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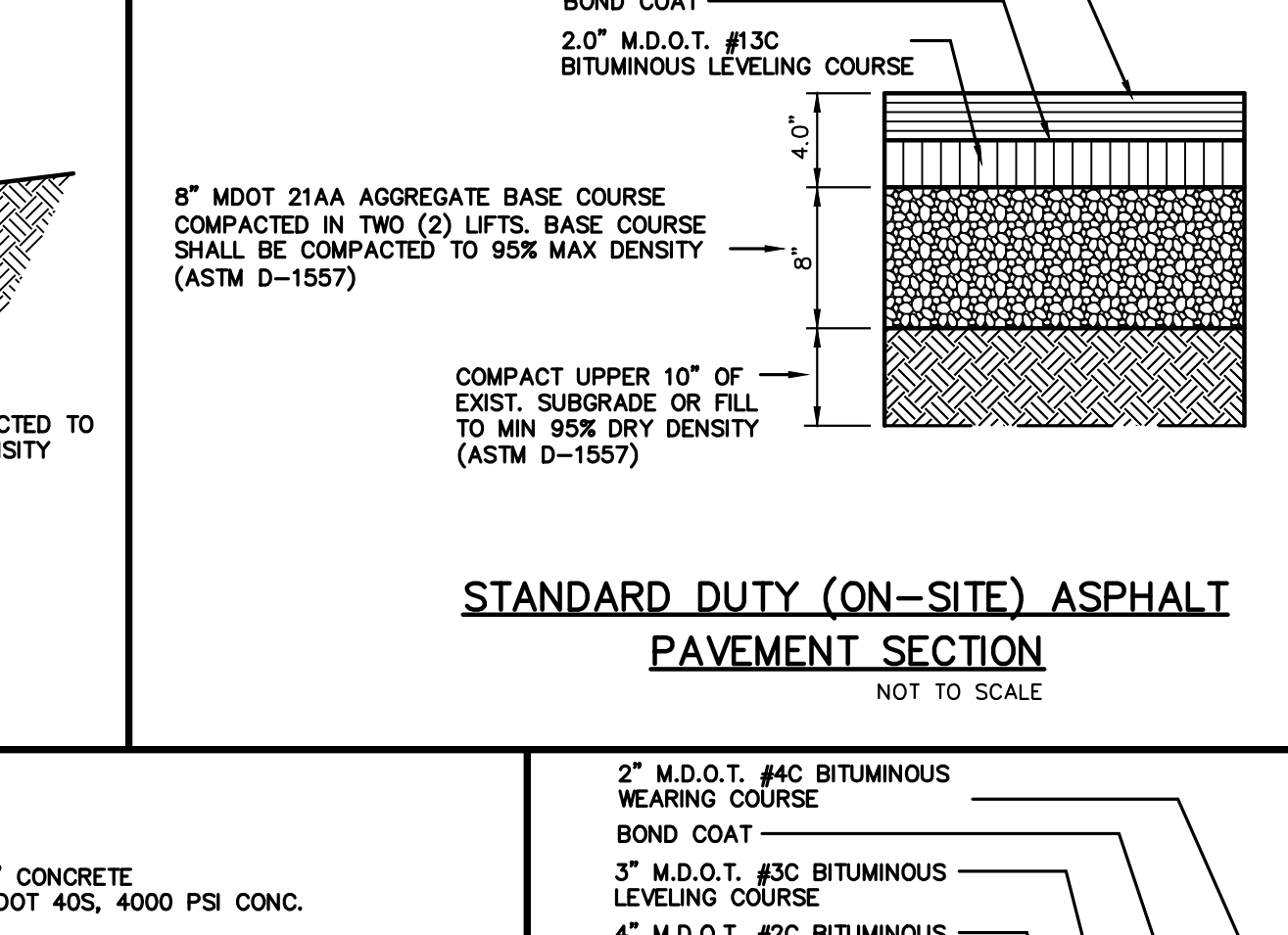
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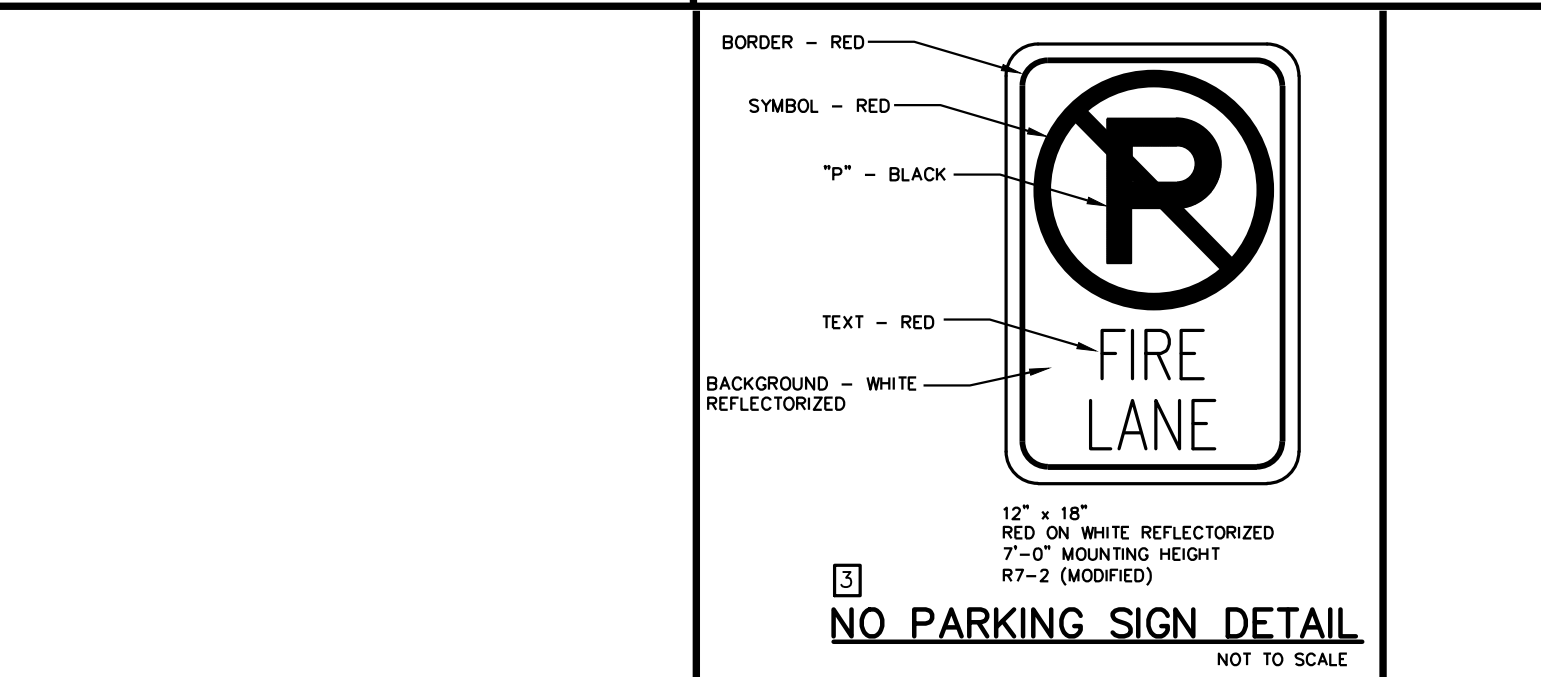
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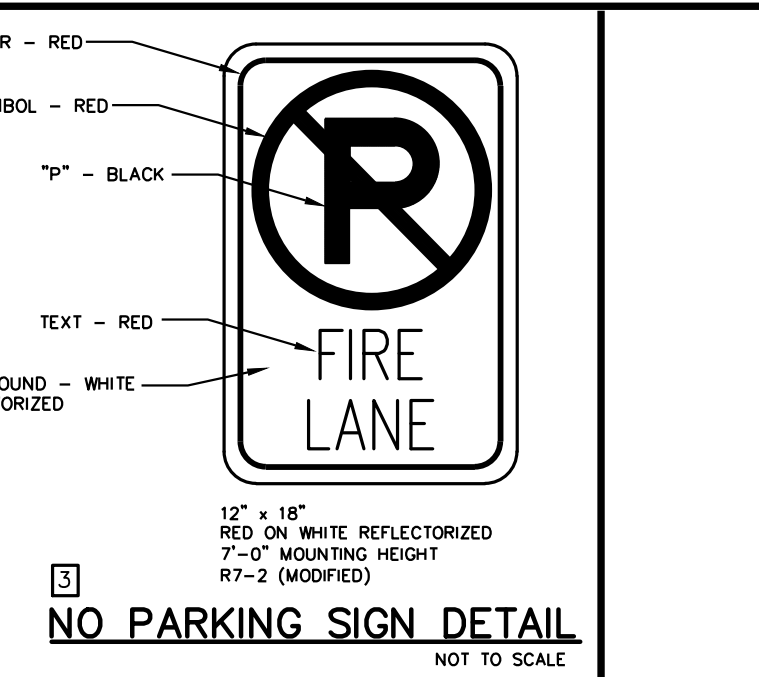
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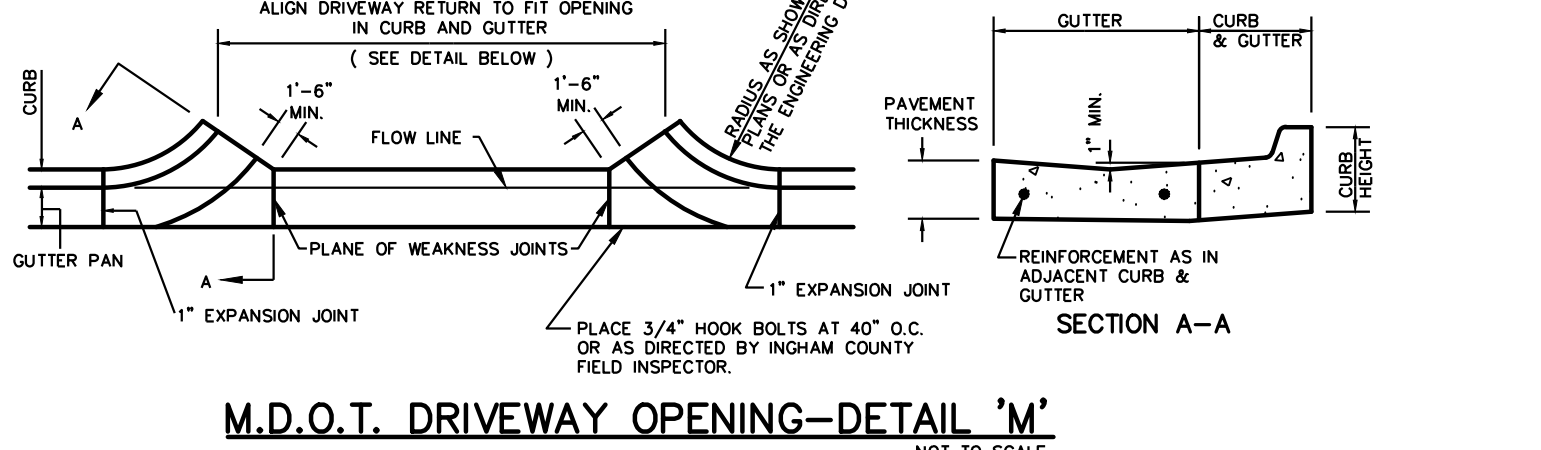
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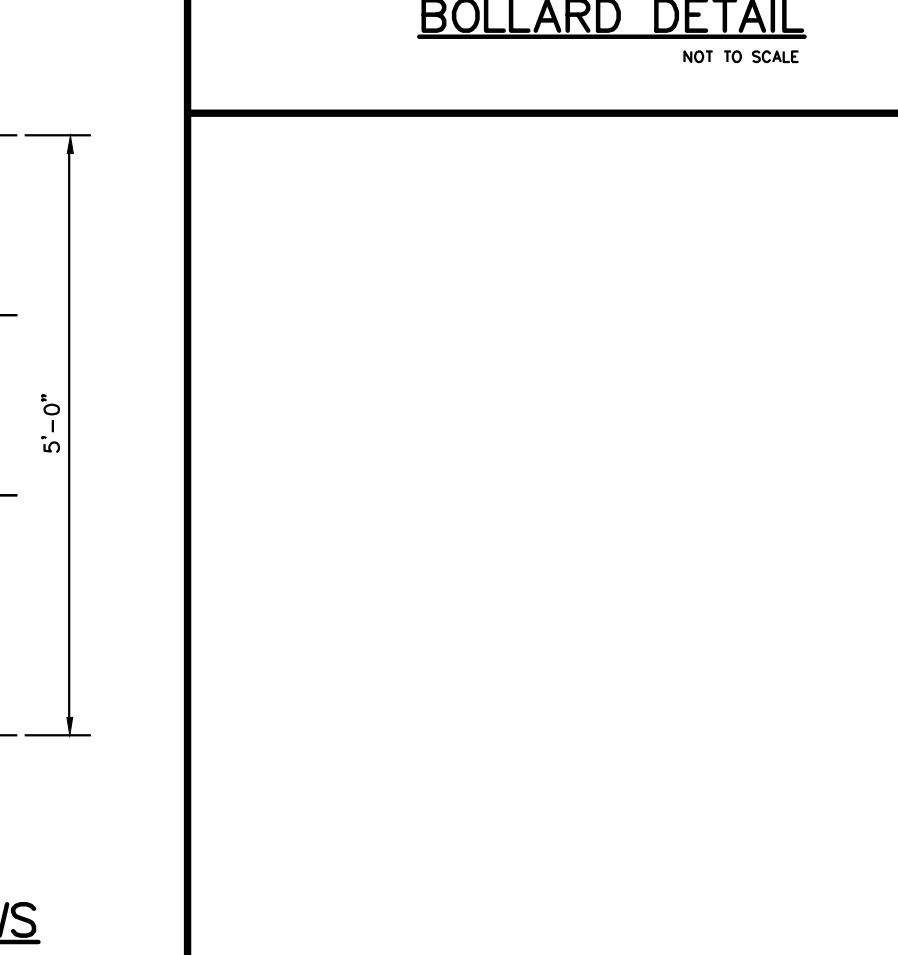
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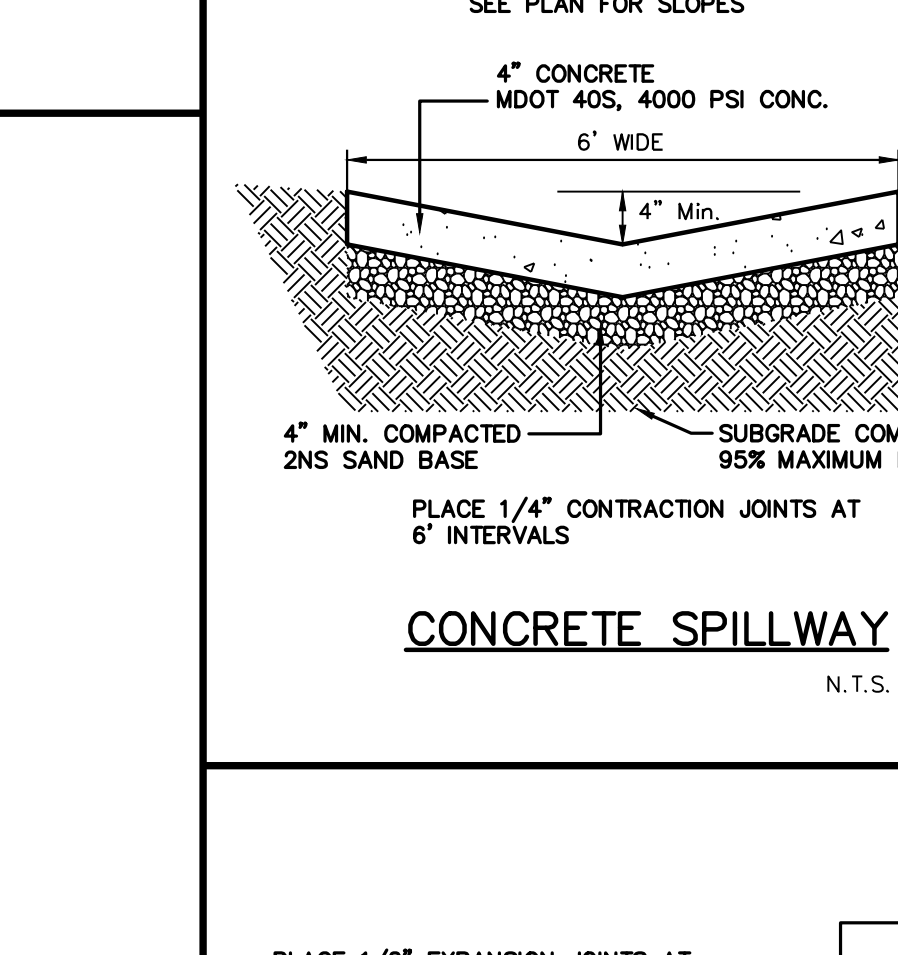
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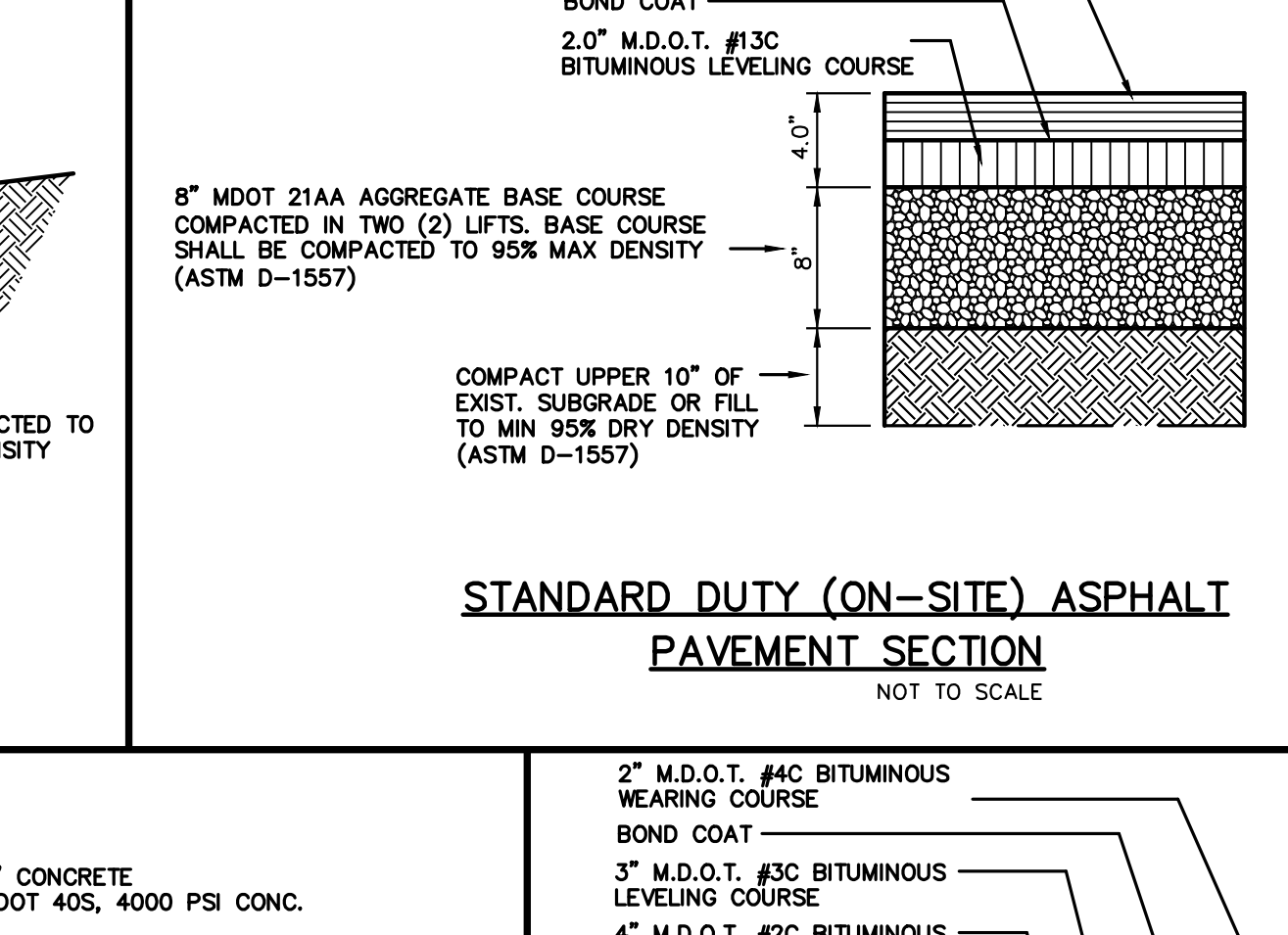
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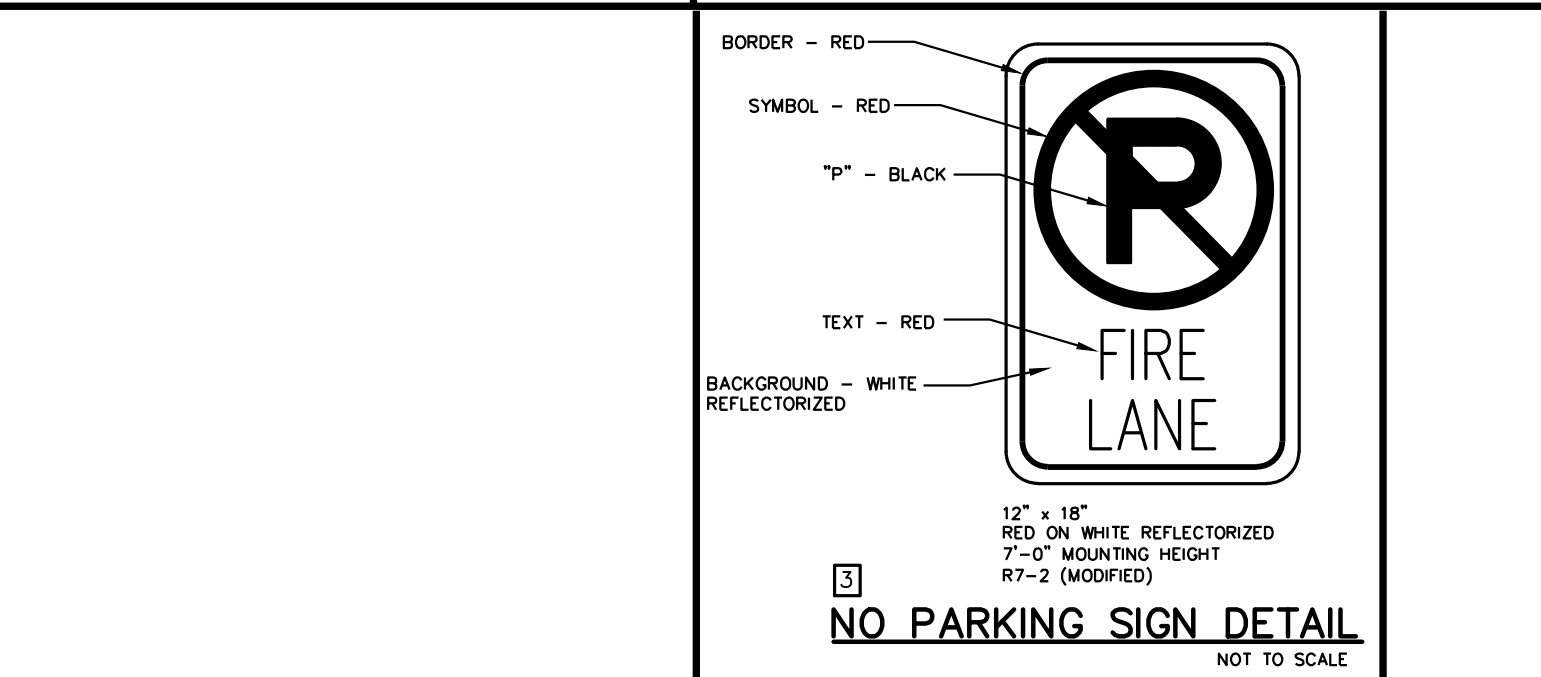
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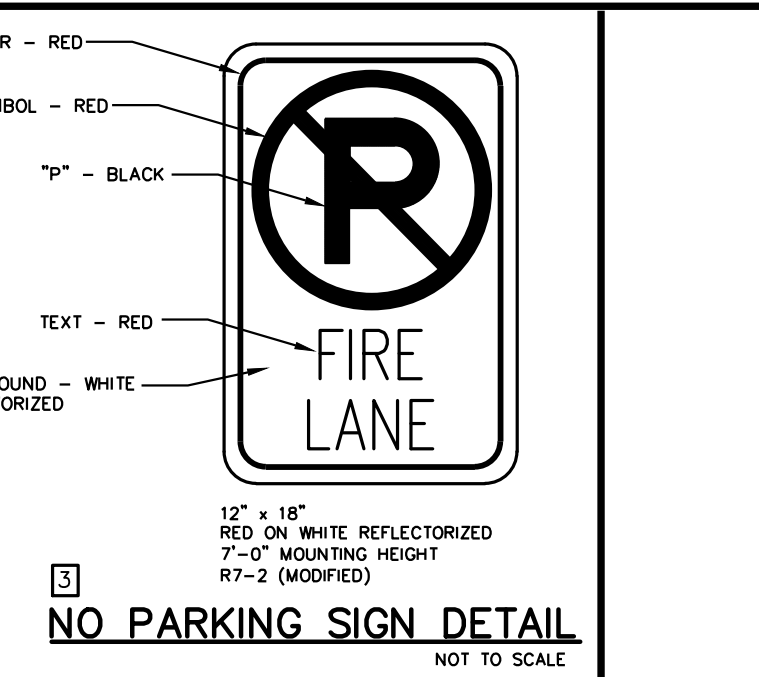
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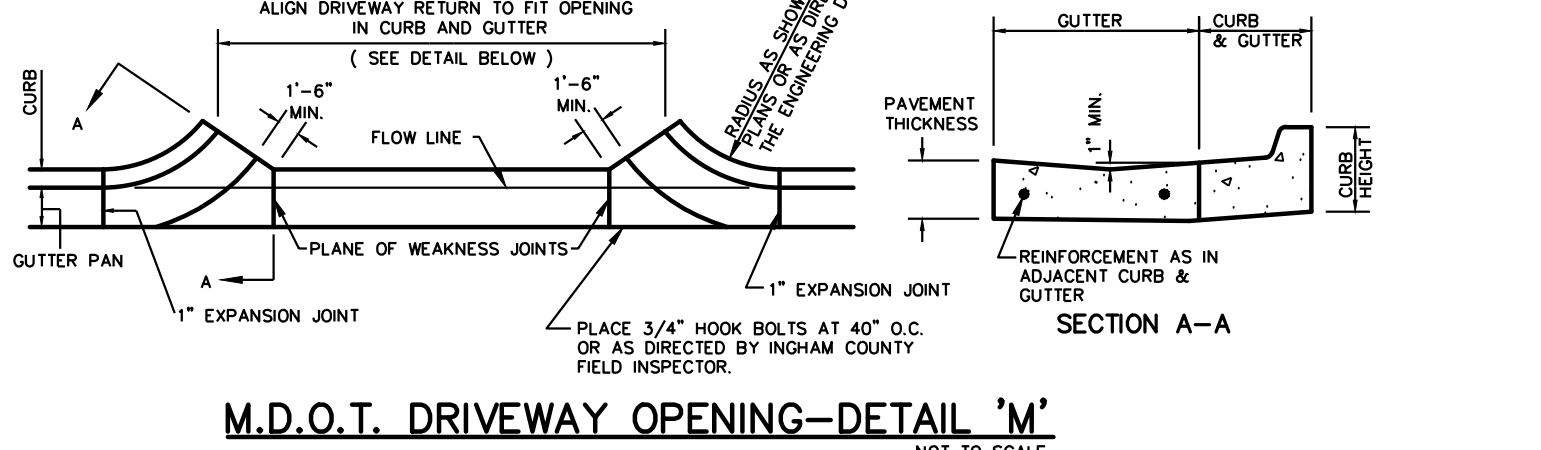
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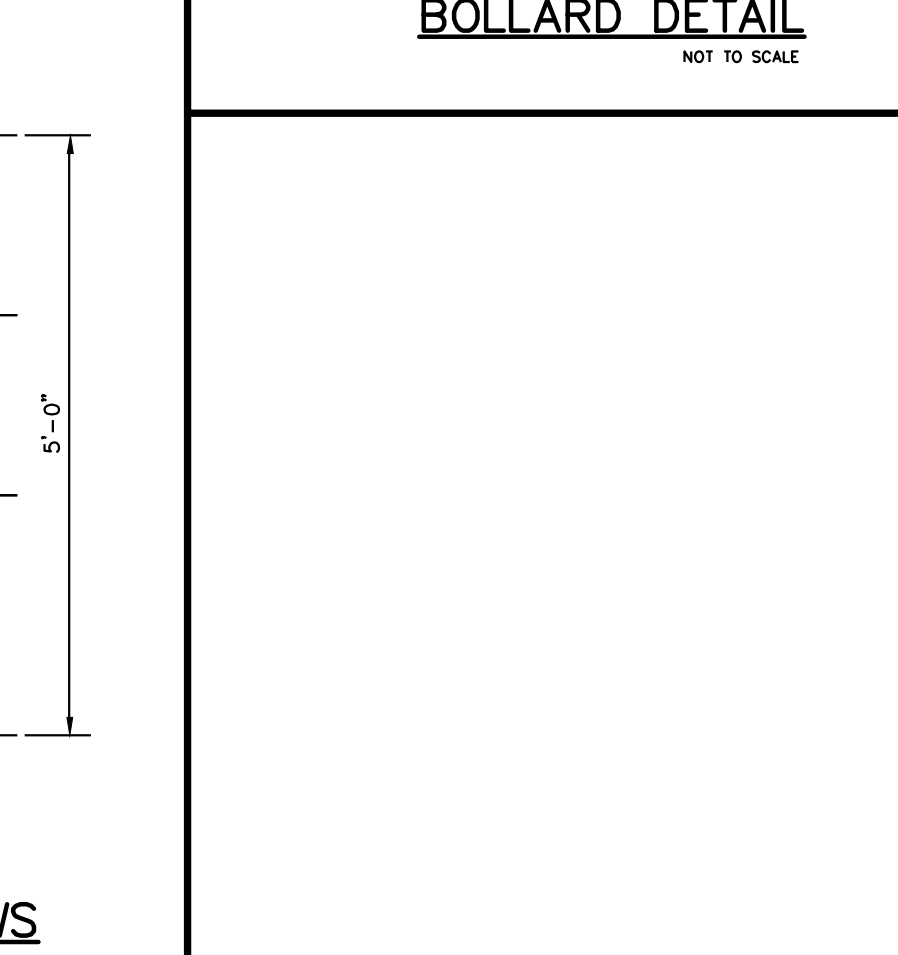
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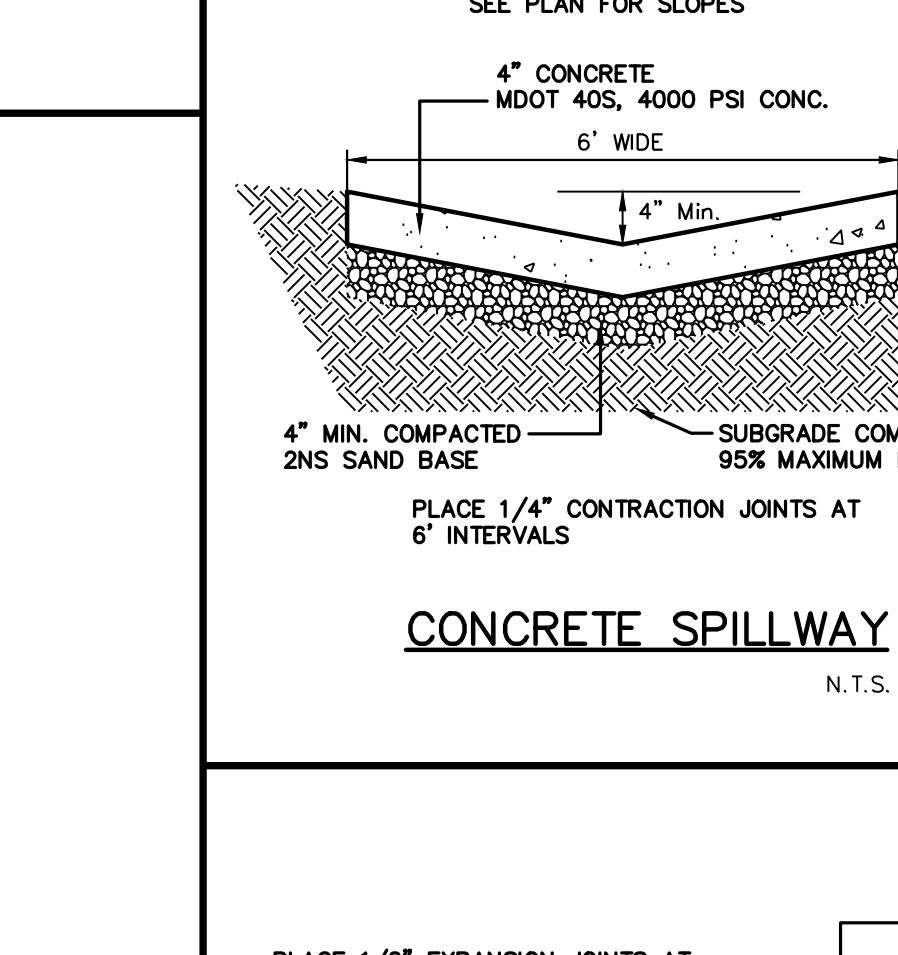
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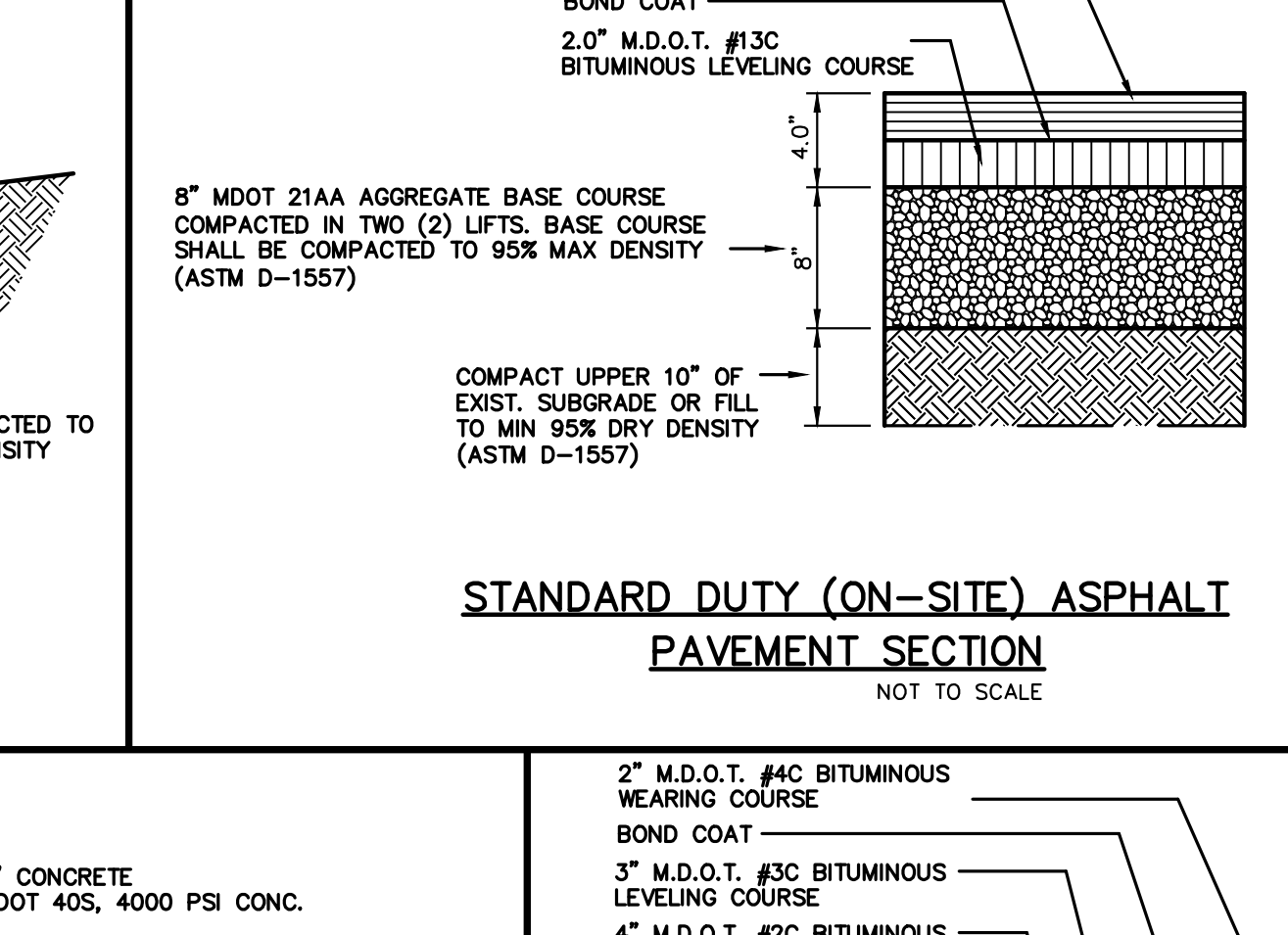
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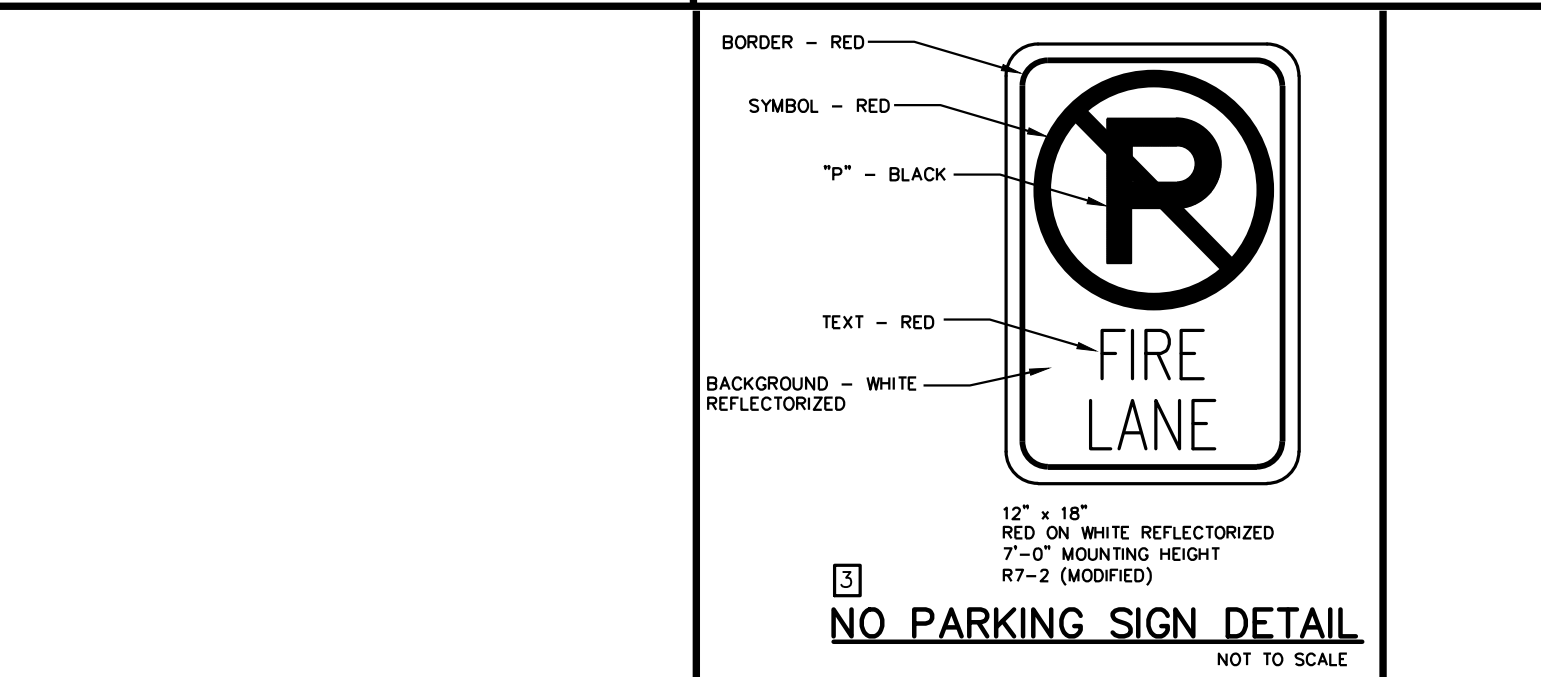
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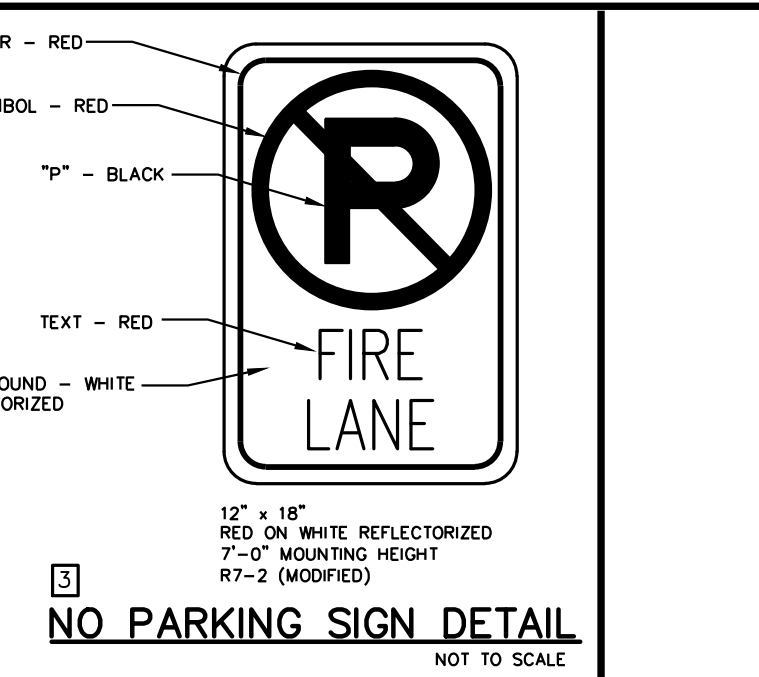
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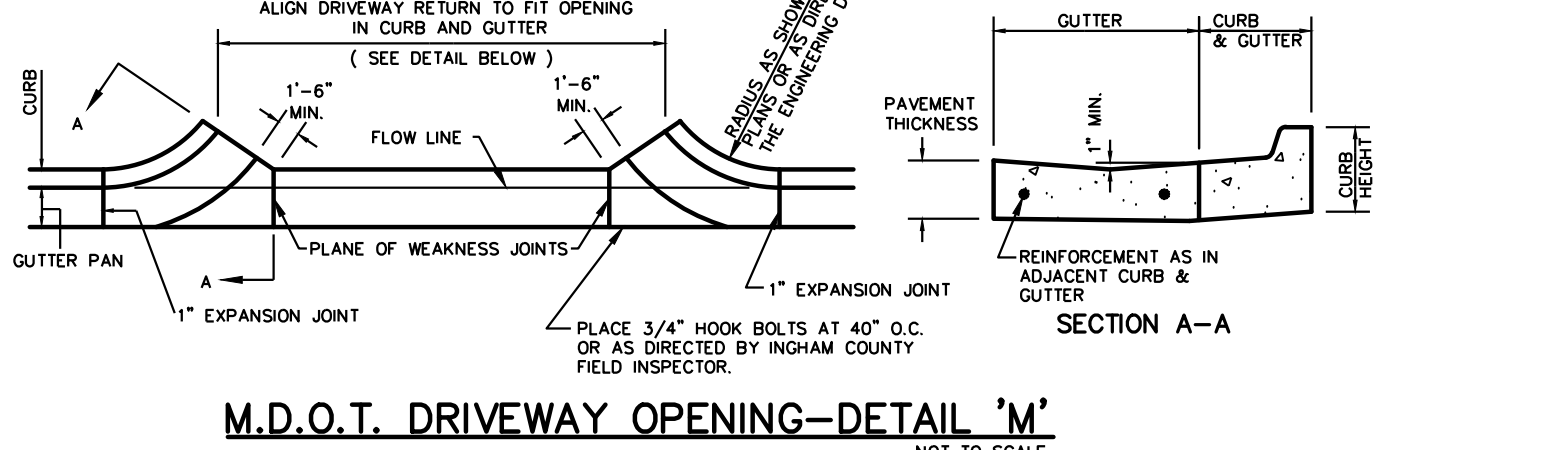
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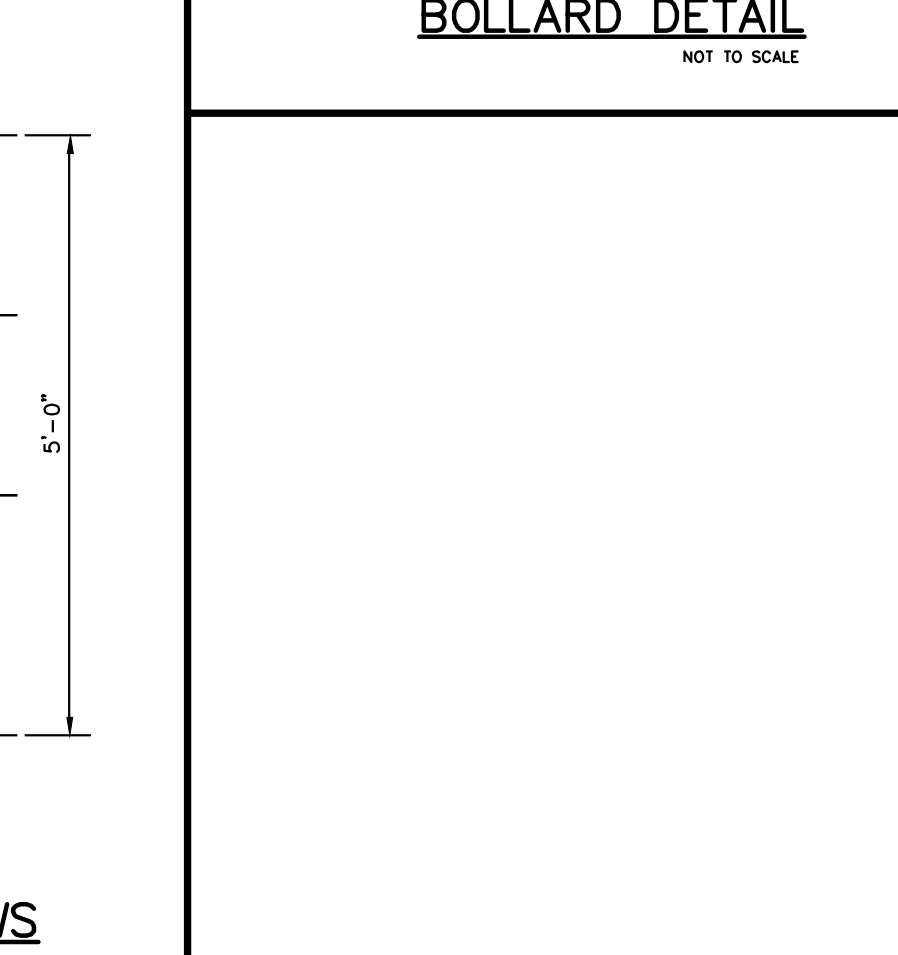
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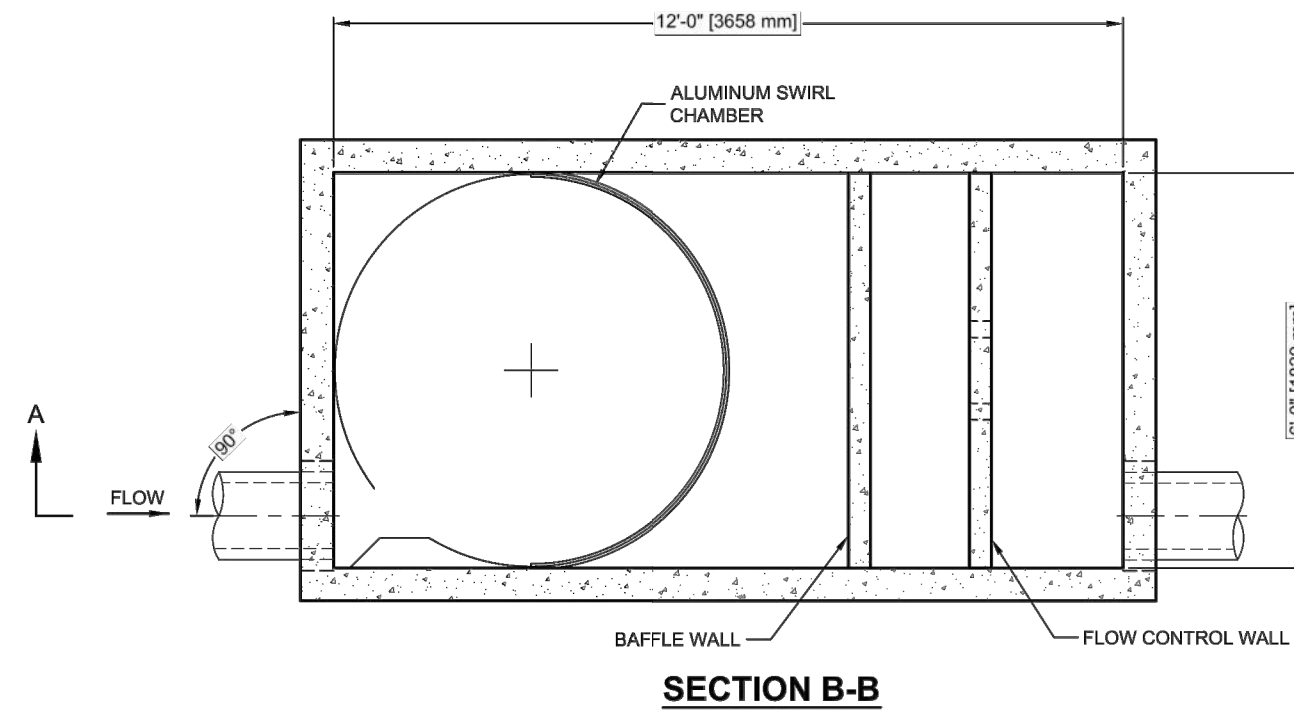
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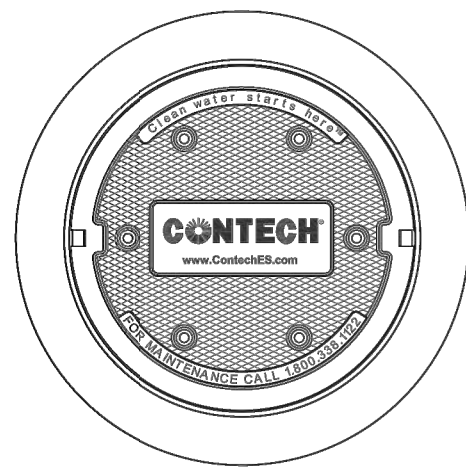
M.D.O.T. DRIVEWAY OPENING-DETAIL 'M'
NOT TO SCALE



1:\COMMON\CAUTIONTREATMENT\00 VORTECHS\4000 STANDARD DRAWINGS\DWG-VORTECHS-4000.DWG 8/20/24 1:53 PM



SECTION B-B



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

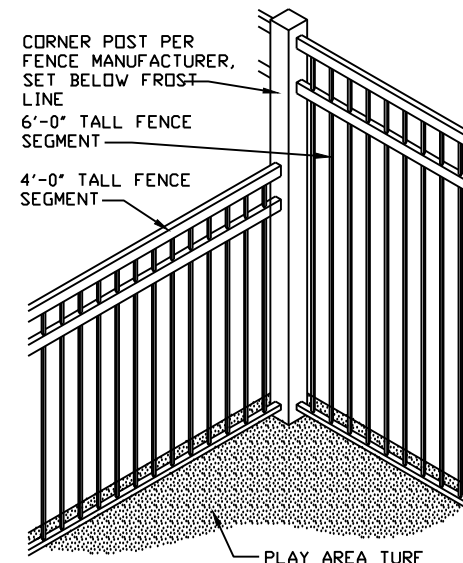
| SITE SPECIFIC DATA REQUIREMENTS | | | |
|----------------------------------|---|----------|----------|
| STRUCTURE ID | * | | |
| WATER QUALITY FLOW RATE (CFS) | * | | |
| PEAK FLOW RATE (CFS) | * | | |
| RETURN PERIOD OF PEAK FLOW (YRS) | * | | |
| PIPE DATA: | | | |
| INLET PIPE 1 | * | MATERIAL | DIAMETER |
| INLET PIPE 2 | * | * | * |
| OUTLET PIPE | * | * | * |
| RIM ELEVATION | | | |
| ANTI-FLOTATION BALLAST | * | WIDTH | HEIGHT |
| NOTES/SPECIAL REQUIREMENTS: | | | |
| * PER ENGINEER OF RECORD | | | |

- GENERAL NOTES**
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com
 4. VORTECHS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M240 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
 6. INLET PIPE(S) MUST BE PERPENDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIAL TO THE SWIRL CHAMBER. DUAL INLETS NOT TO HAVE OPPOSING TANGENTIAL FLOW DIRECTIONS.
 7. OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL BAFFLE AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.
- INSTALLATION NOTES**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

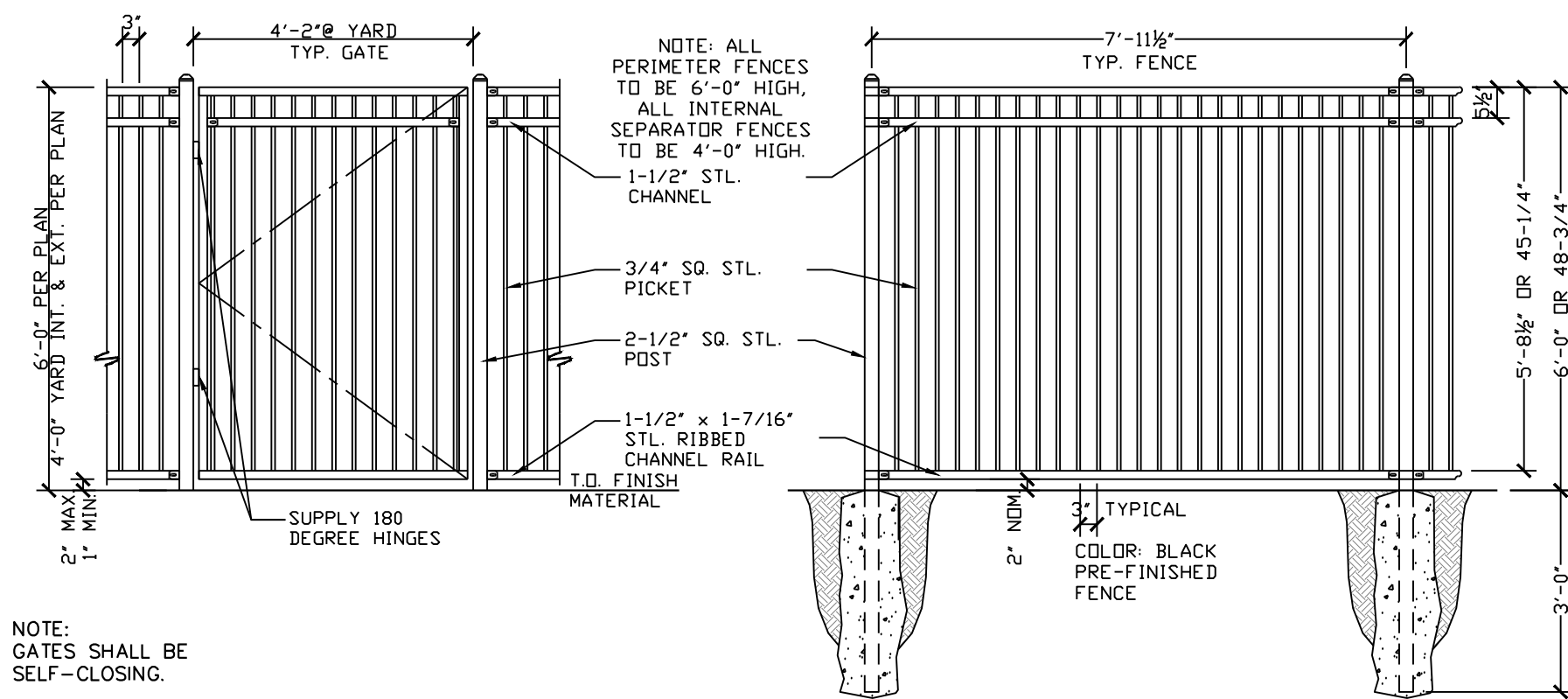
CONTECH
ENGINEERED SOLUTIONS LLC
www.contechES.com
9525 Centre Pointe Dr., Suite 400, West Chester, OH 45389
800-538-1122 \$15-645-7900 \$15-645-7988 FAX

VORTECHS 4000
STANDARD DETAIL

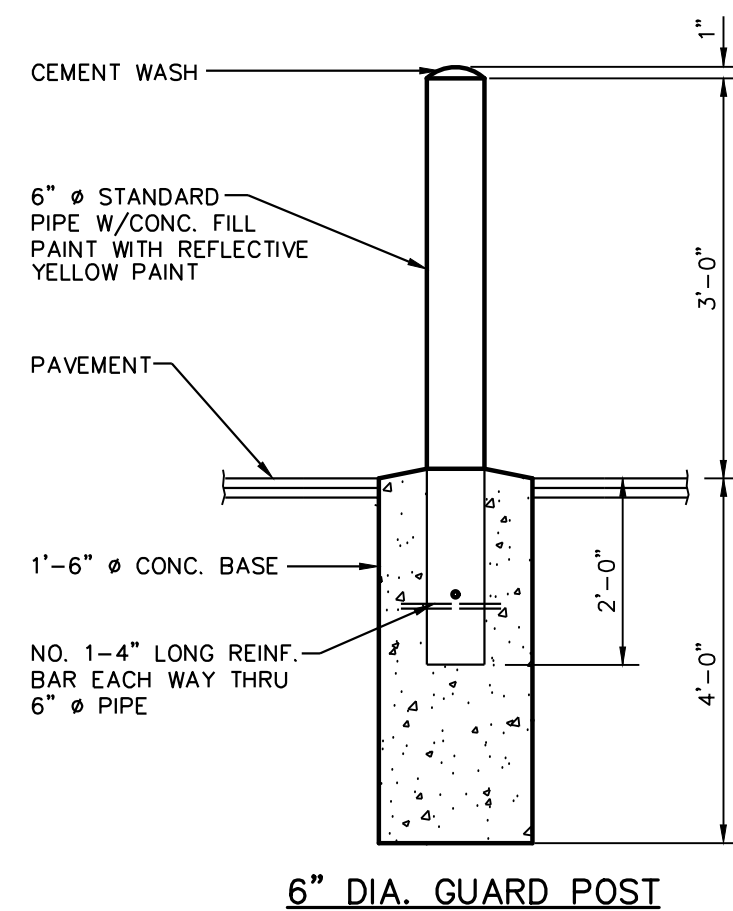
NOTE: FENCE - 'AMERISTAR'
MONTAGE RESIDENTIAL MAJESTIC,
SPEC.



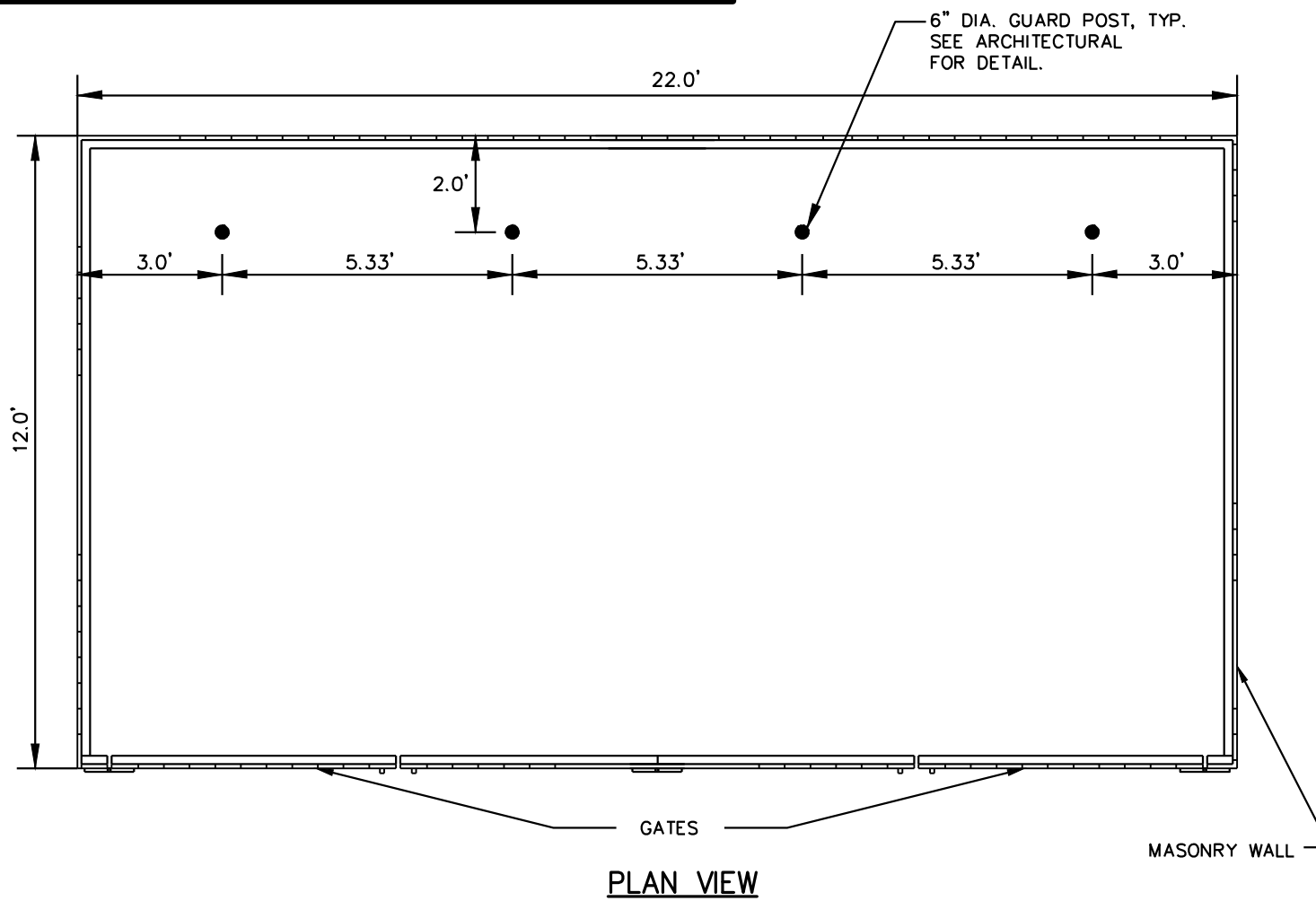
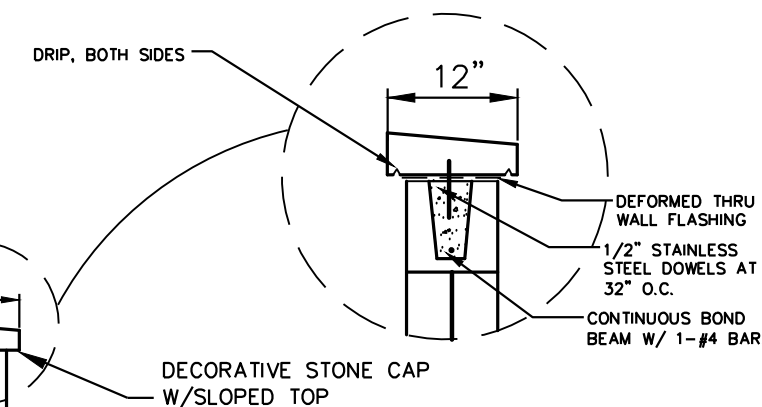
FENCE NOTES:
IT IS IMPORTANT THAT
FENCES BE DESIGNED SO
THAT THERE ARE NO SPACES
BETWEEN PICKETS WHICH
ARE BETWEEN 1-3/4"
MINIMUM AND 2-1/2"
MAXIMUM TO PREVENT
CHILDREN'S HEADS FROM
BEING ENTRAPPED.



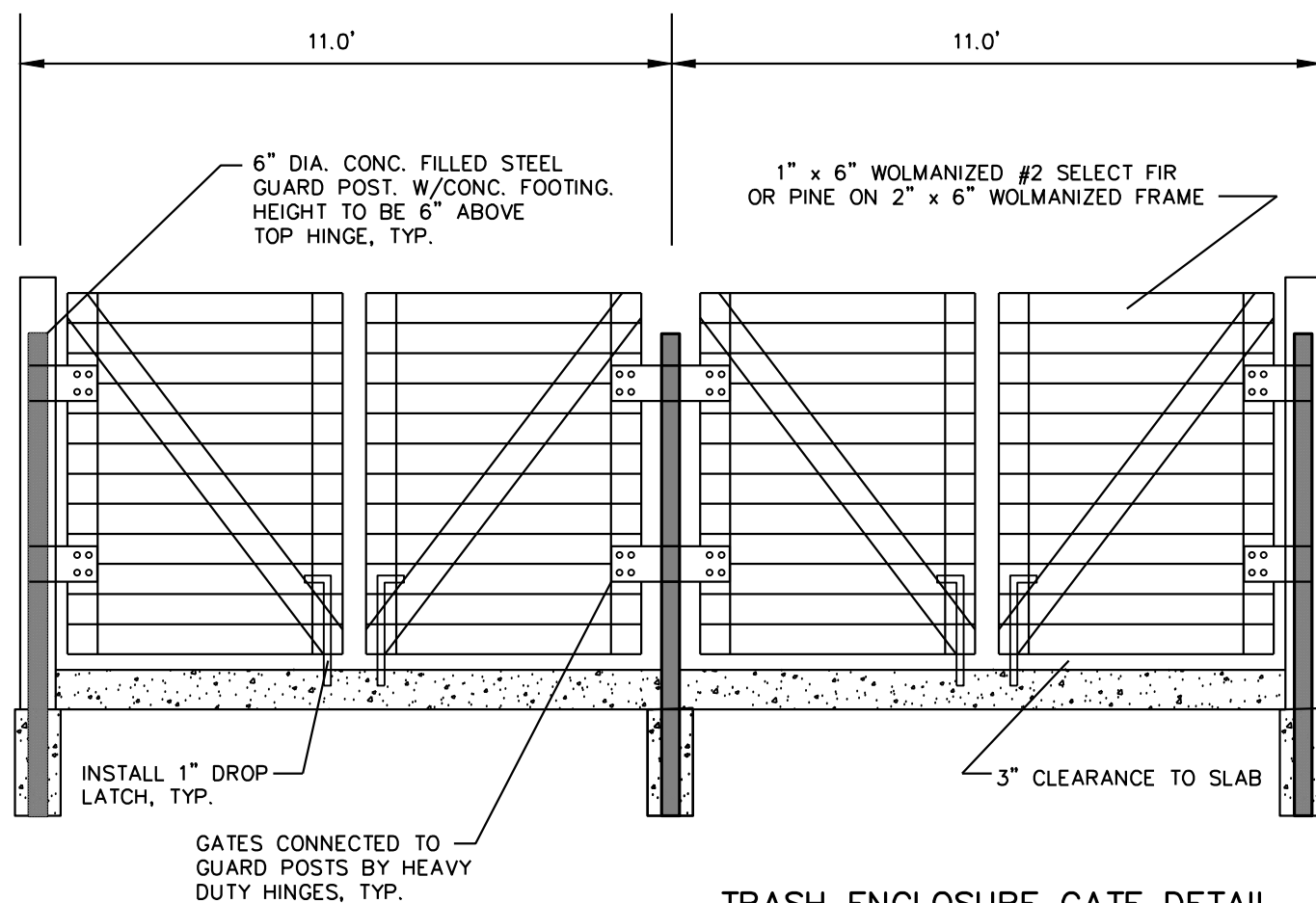
ORNAMENTAL STEEL FENCE DETAIL
NOT TO SCALE



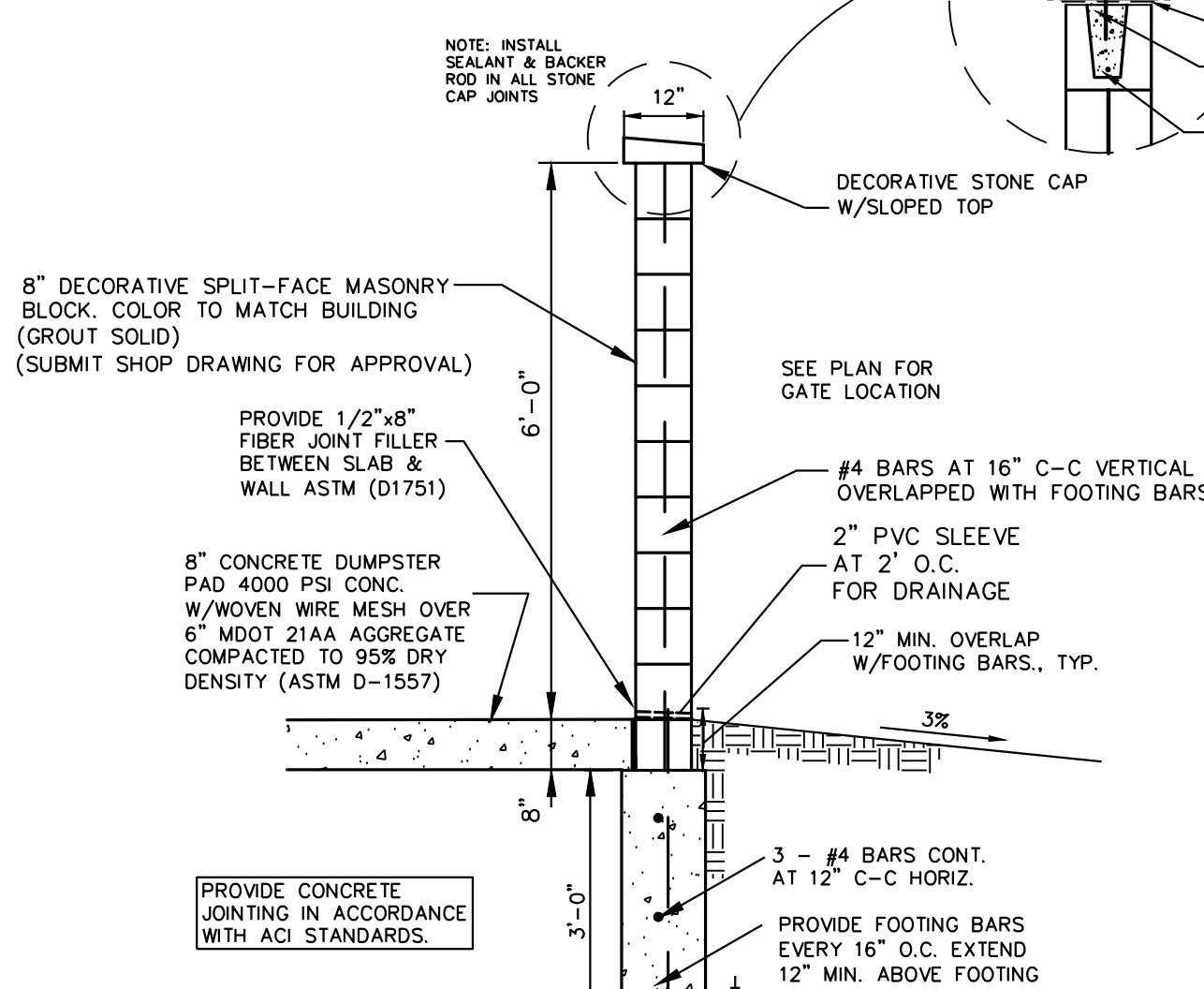
6" DIA. GUARD POST



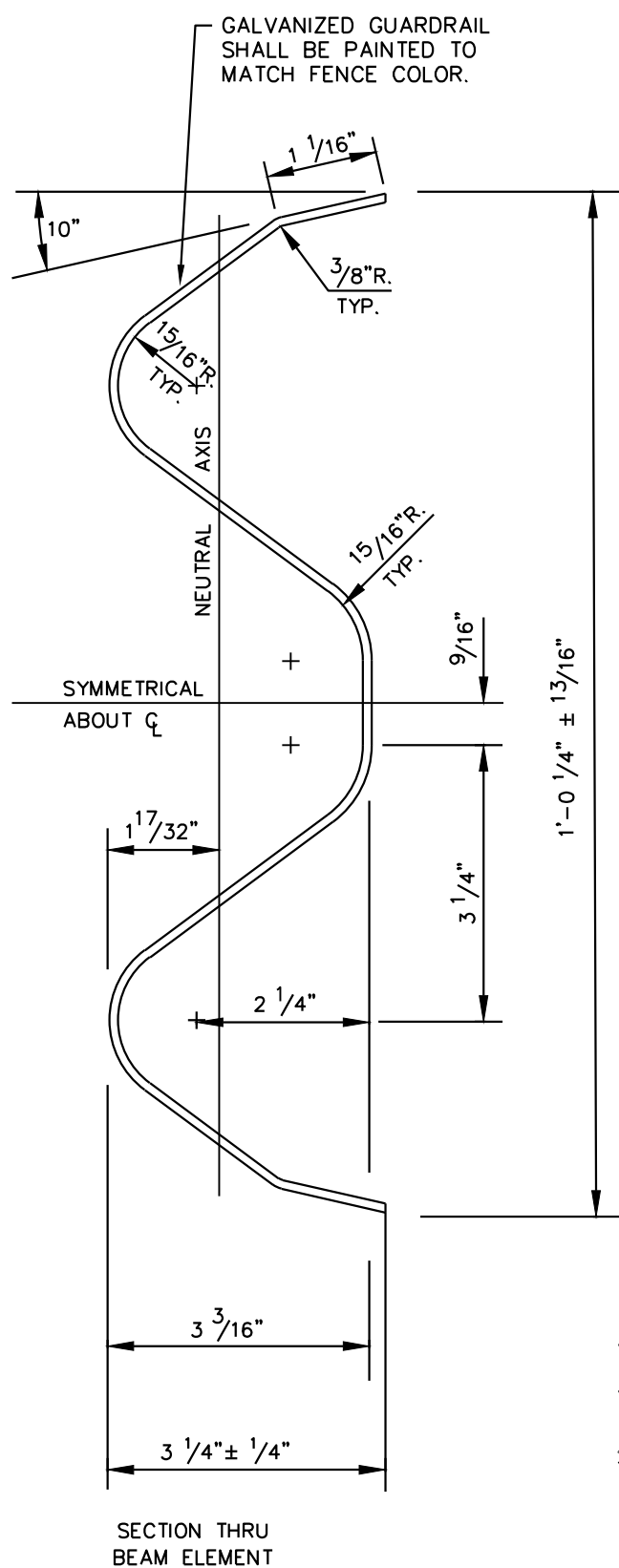
PLAN VIEW



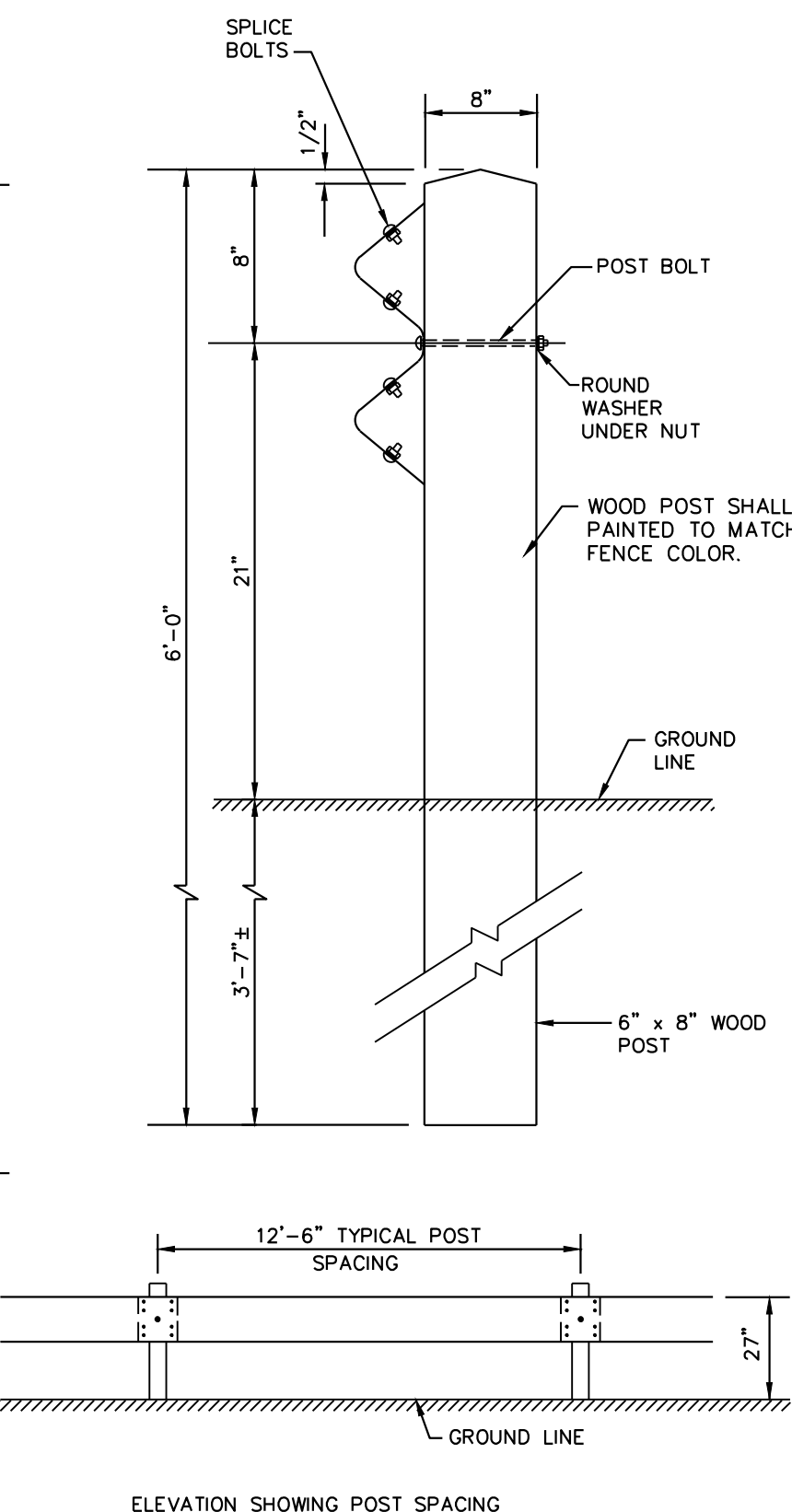
TRASH ENCLOSURE GATE DETAIL



TRASH ENCLOSURE WALL
CROSS-SECTION



SECTION THRU
BEAM ELEMENT
(FOR MDOT BEAM GUARDRAIL - TYPES A, B, BD)



GUARDRAIL DETAIL
N.T.S.



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING
UNDERGROUND UTILITIES AS SHOWN ON THIS
DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS
GIVEN FOR THE ACCURACY OF THE INFORMATION
CONTAINED HEREIN. THE USER SHALL BE RESPONSIBLE
FOR DETERMINING THE EXACT UTILITY LOCATIONS AND
ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION CONTRACTOR AGREES THAT IN
ACCORDANCE WITH GENERALLY ACCEPTED
CONSTRUCTION PRACTICES, CONSTRUCTION
CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE
AND COMPLETE RESPONSIBILITY FOR JOB SITE
CONDITIONS DURING THE COURSE OF CONSTRUCTION.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE
COMPLETENESS OR ACCURACY THEREOF. THE
CONTRACTOR SHALL BE EXCLUDED AND NOT BE LIMITED
TO NORMAL WORKING HOURS, AND CONSTRUCTION
CONTRACTOR FURTHER AGREES TO DEFEND,
INDEMNIFY AND HOLD DESIGN PROFESSIONAL,
HANDLES FROM ANY AND ALL LIABILITY, REASON
OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE
OF WORK ON THIS PROJECT EXISTING LIABILITY
ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN
PROFESSIONAL.

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BEFORE YOU DIG CALL**

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(586) 216-1043
www.storeyengineering.com

THE GODDARD SCHOOL OF BEVERLY HILLS
935 E SILVERBELL ROAD
LAKE ORION, MI 48060
DETAILS - 2
THE GODDARD SCHOOL - BEVERLY HILLS
31655 SOUTHFIELD ROAD
TIN RIDE, SE 1/4 SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI
DES. TSS DN. TSS SUR. TSS TSS P.M. TSS
8/5/2021 PROJECTS/2021-008 GODDARD SCHOOL - BEVERLY HILLS WASTE PLANT-C-6.2 DETAILS-2.DWG

ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

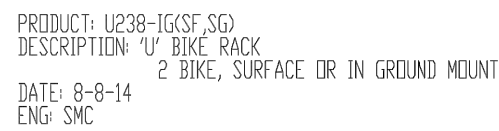
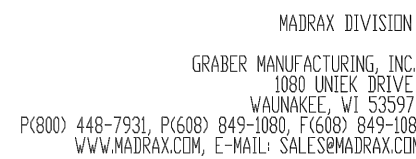
SCALE: 1" = 30'

DRAWING NUMBER:

C-6.2

REVISIONS

NO. DATE BY DESCRIPTION



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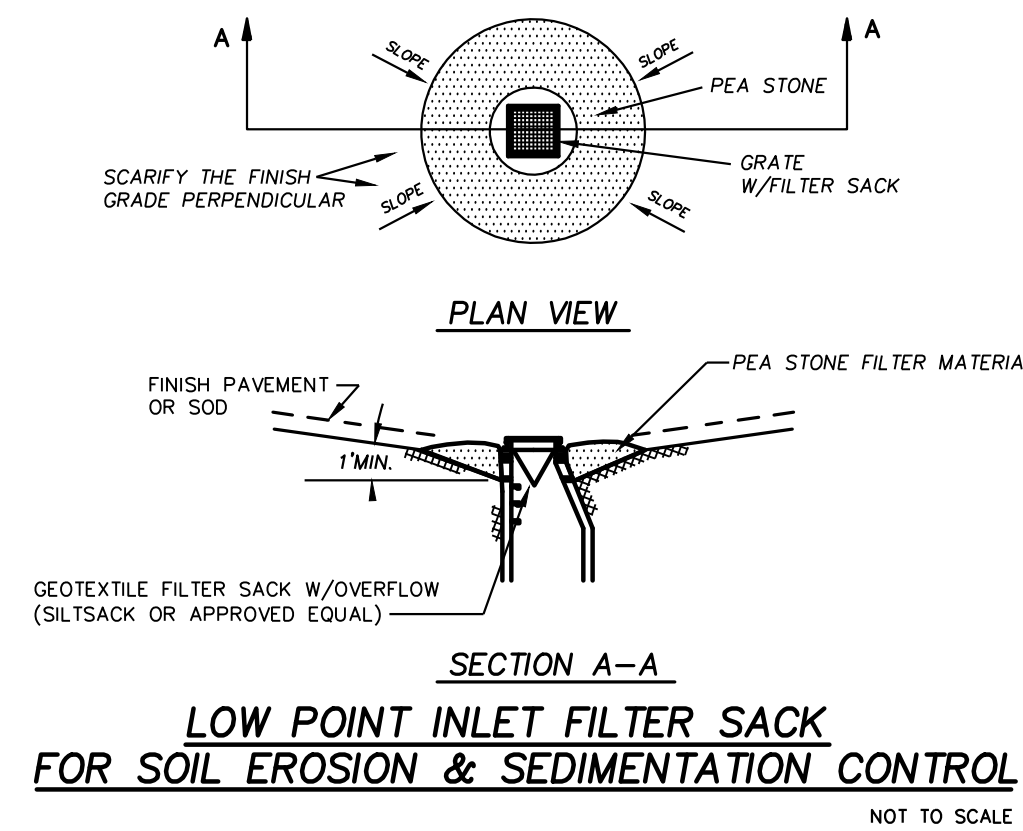
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NOTES:

1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR/FINISH; SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

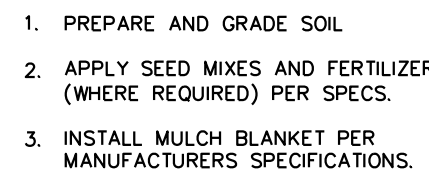
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NOT TO SCALE



LOW POINT INLET FILTER SACK
FOR SOIL EROSION & SEDIMENTATION CONTROL

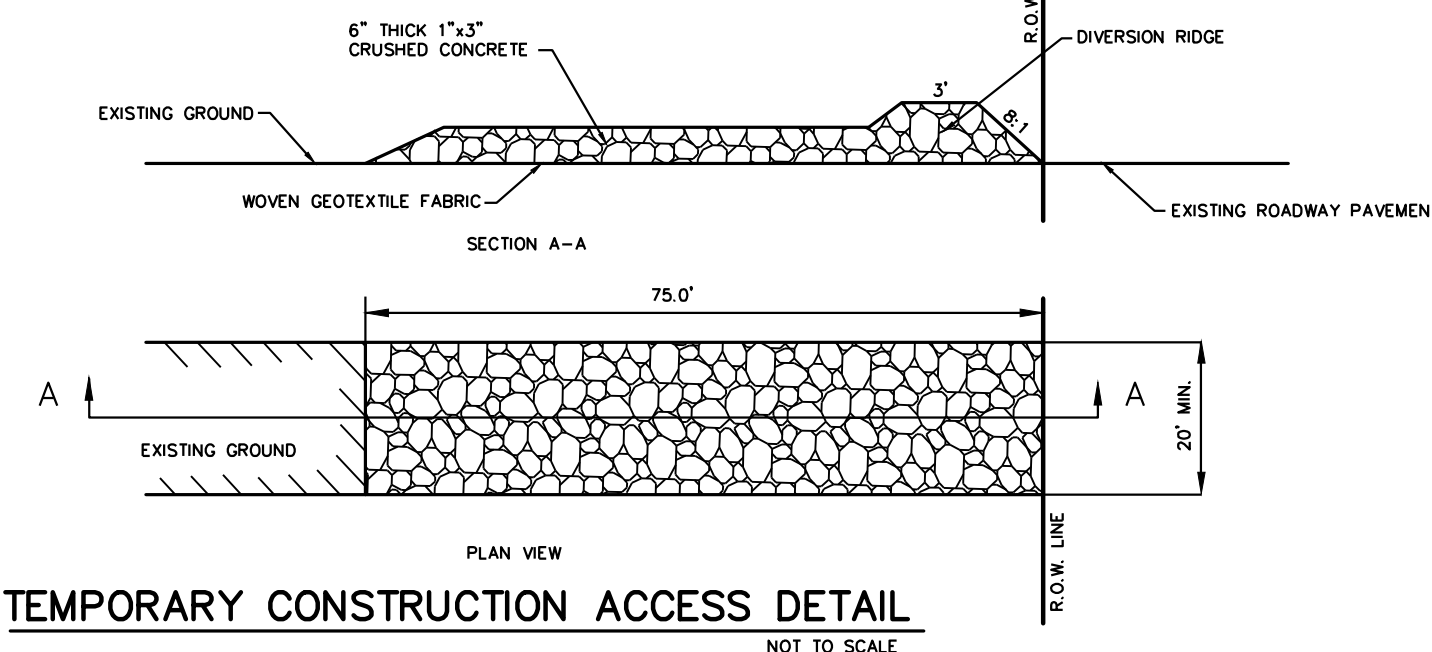
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EROSION CONTROL MAT DETAIL

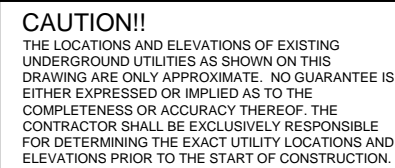
NOT TO SCALE

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT PACKING OR FLOWING OF SEDIMENTS ONTO THE RIGHT-OF-WAY. THIS MAY REQUIRE CLEANING, TOP DRESSING, REPAIR, ETC. WHEN NECESSARY WHEELS SHALL BE CLEANED BEFORE ENTERING THE RIGHT-OF-WAY (ROW). WASHING SHALL BE DONE IN AN AREA THAT DRAINS INTO AN APPROVED SEDIMENT TRAP/BASIN.
2. WHERE ACCESS TO THE CONSTRUCTION SITE IS LIMITED IN LENGTH (AS IN UNDERPASS SYSTEMS), DAILY STREET SWEEPING MAY BE NECESSARY WITH KEEPS SOILS TRACKED ONTO ROADS FROM BEACHING THE STREET SEWER SYSTEM AND FACILITIES.
3. MAINTENANCE MAY INCLUDE ADDING EXTRA LAYERS OF STONE OR BITUMINOUS WHEN THE ORIGINAL LAYERS BECOME WEARED OR WHEN THE ROAD SURFACE IS DAMAGED. THE STONE SHALL BE CLEAN AND FREE OF OILS, GREASES AND ALL DEBRIS AND SEDIMENTS DROPPED OR ERODED ONTO ROADS SHALL BE REMOVED IMMEDIATELY BY SWEEPING EFFECTIVELY.



TEMPORARY CONSTRUCTION ACCESS DETAIL

NOT TO SCALE



CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE PROJECTOR HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN



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THE GODDARD SCHOOL OF BEVERLY HILLS

SCHOOL OF BUSINESS
35 E SILVERBELL ROAD

DETAILS - 3

THE GODDARD SCHOOL - BEVERLY HILLS
31655 SOUTHEFIELD ROAD

T1N, R10E, SE 1/4, SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI

| DES. | ISS | DN. | ISS | SUK. | ISS | P.M. | ISS |
|----------|-----|-----|-----|------|-----|------|-----|
| SEC\2021 | ISS | 080 | ISS | 008 | ISS | ISS | ISS |

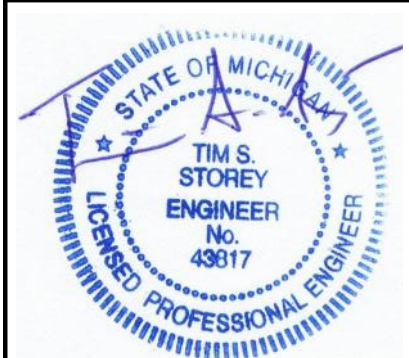
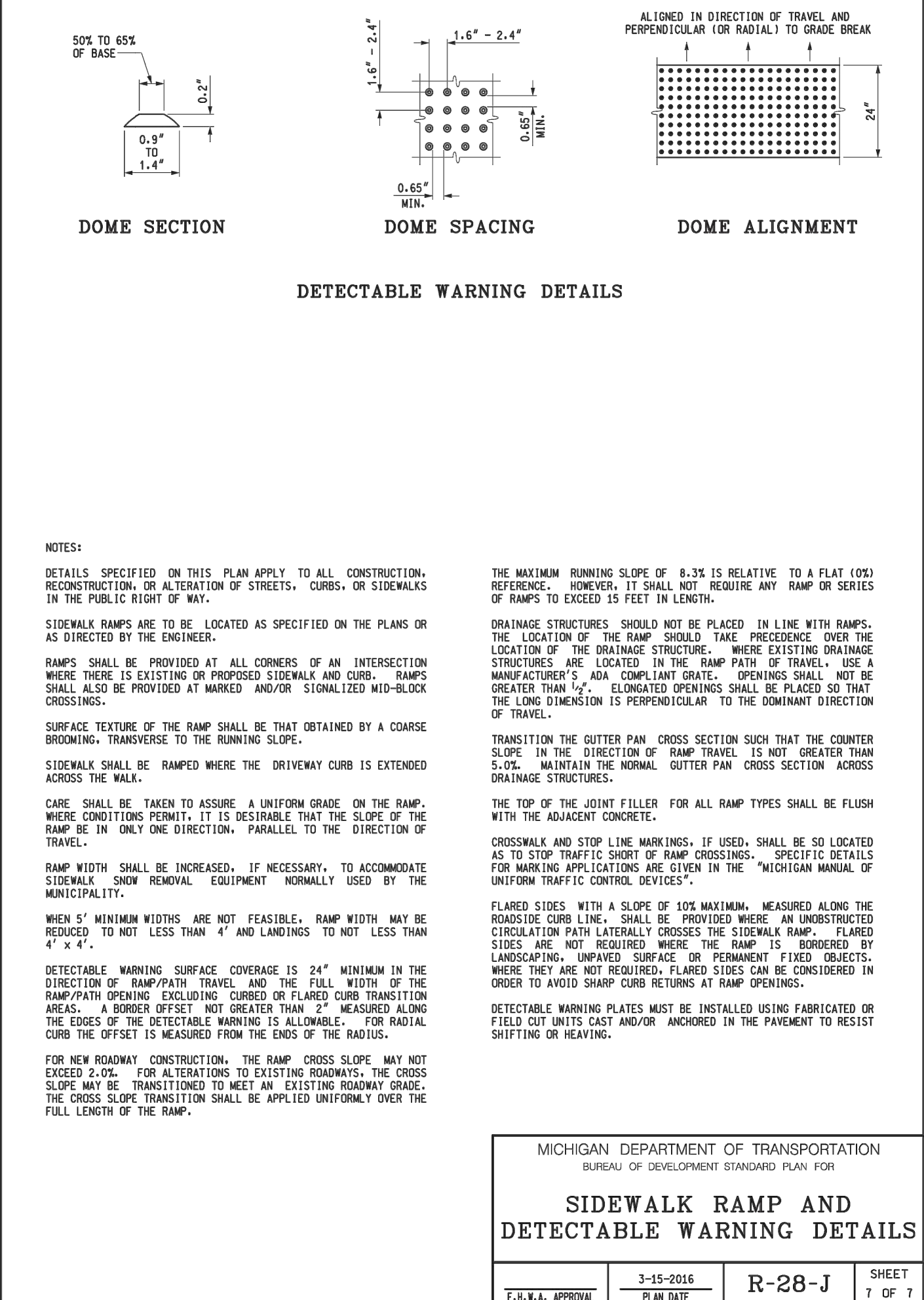
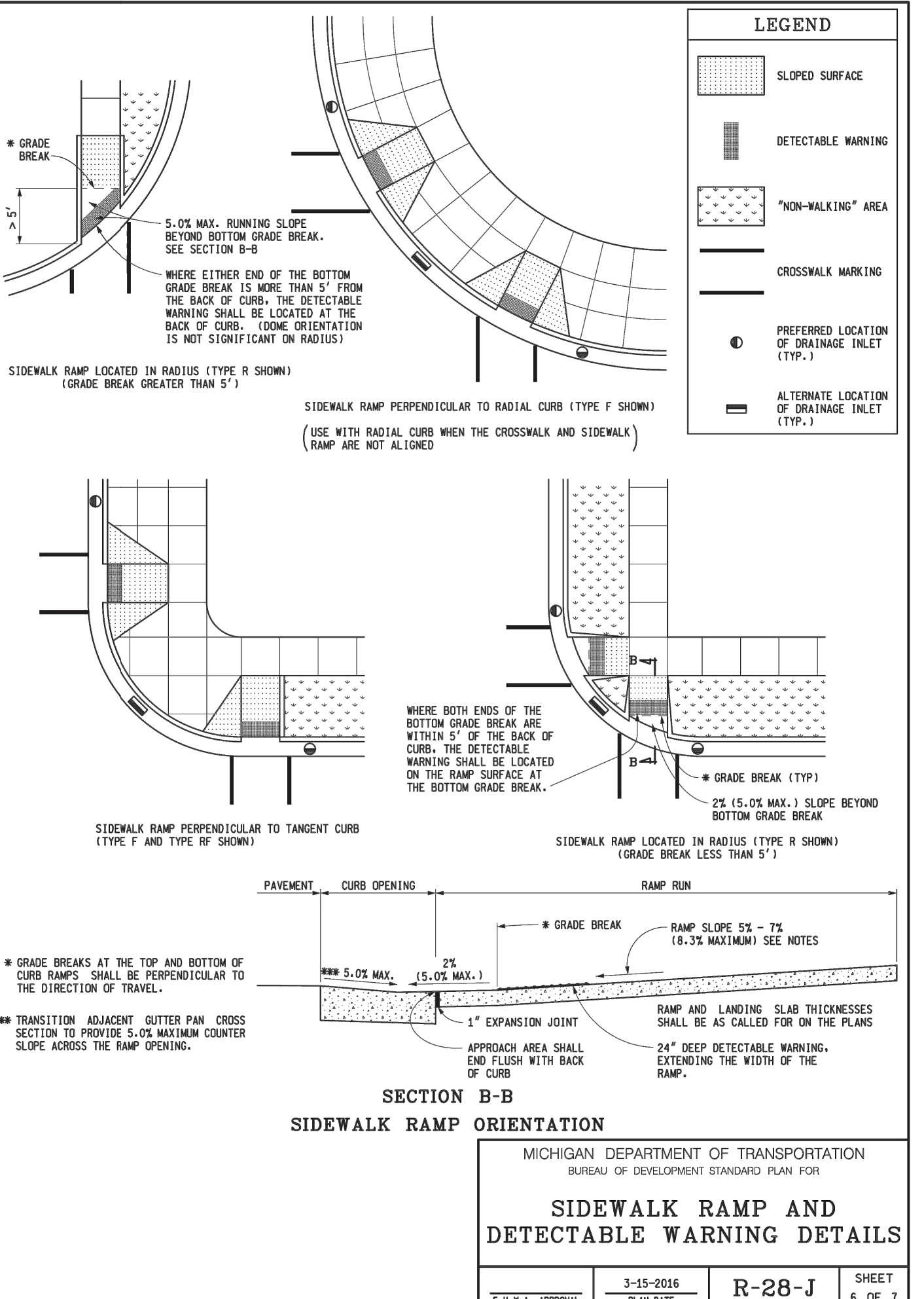
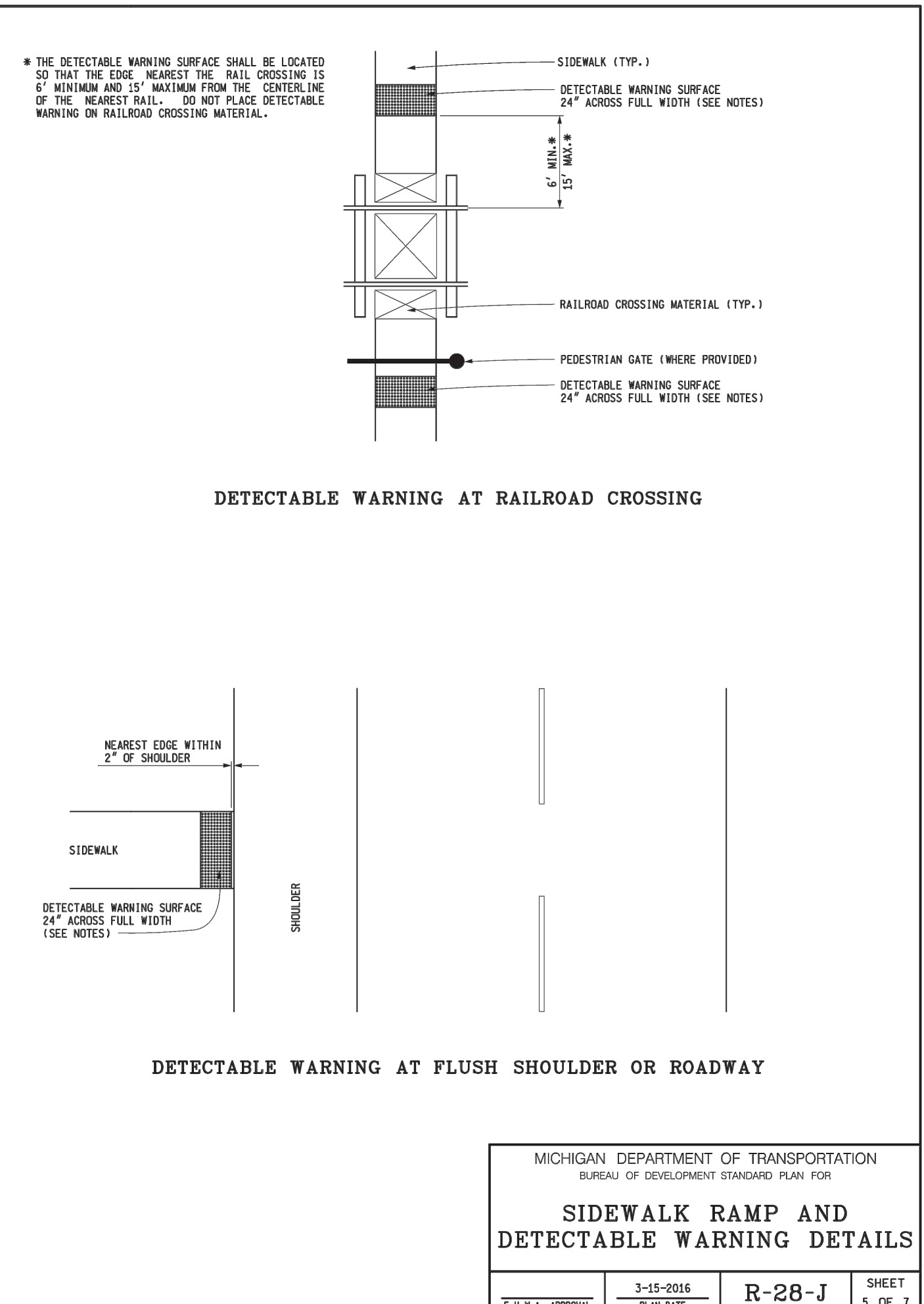
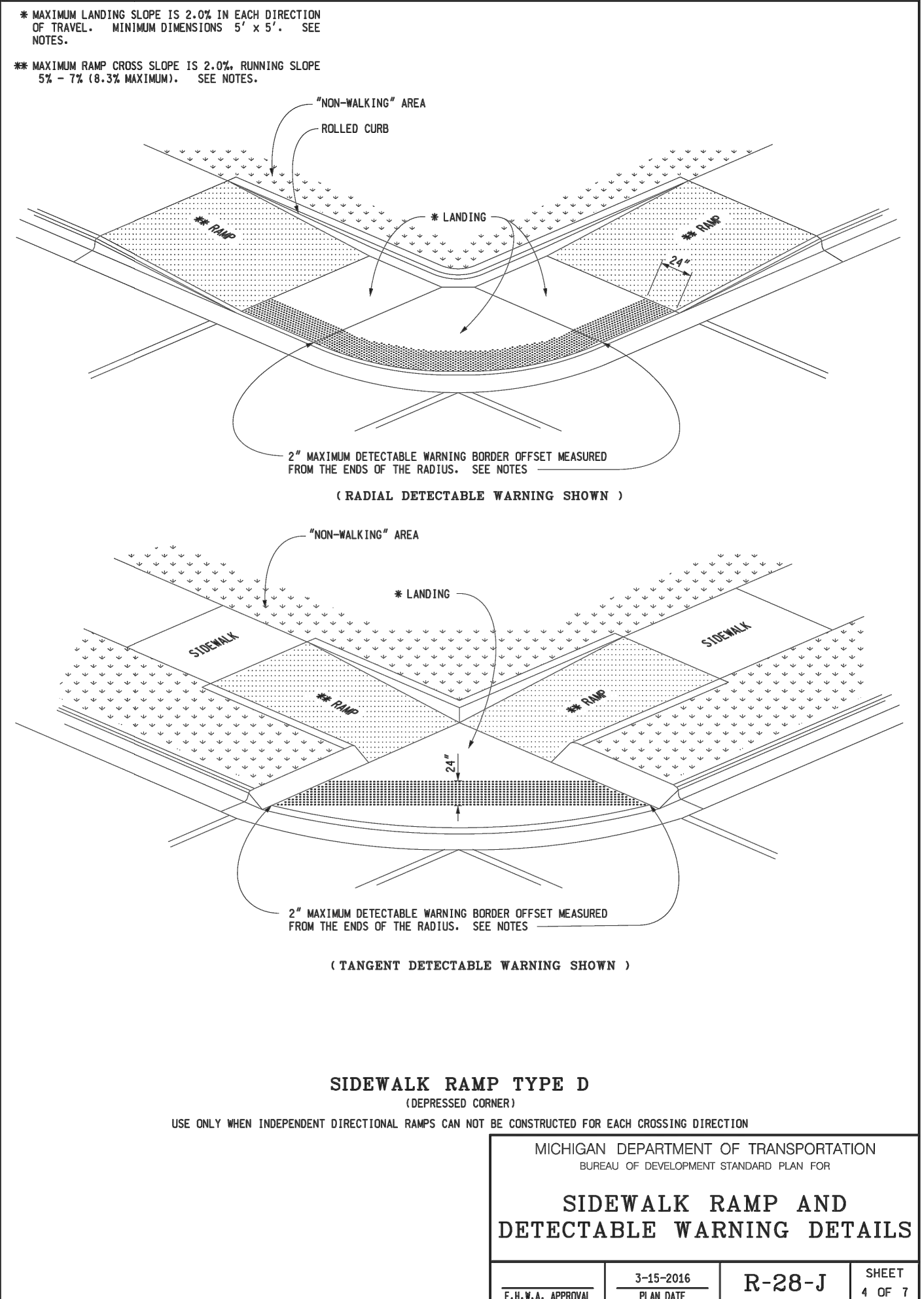
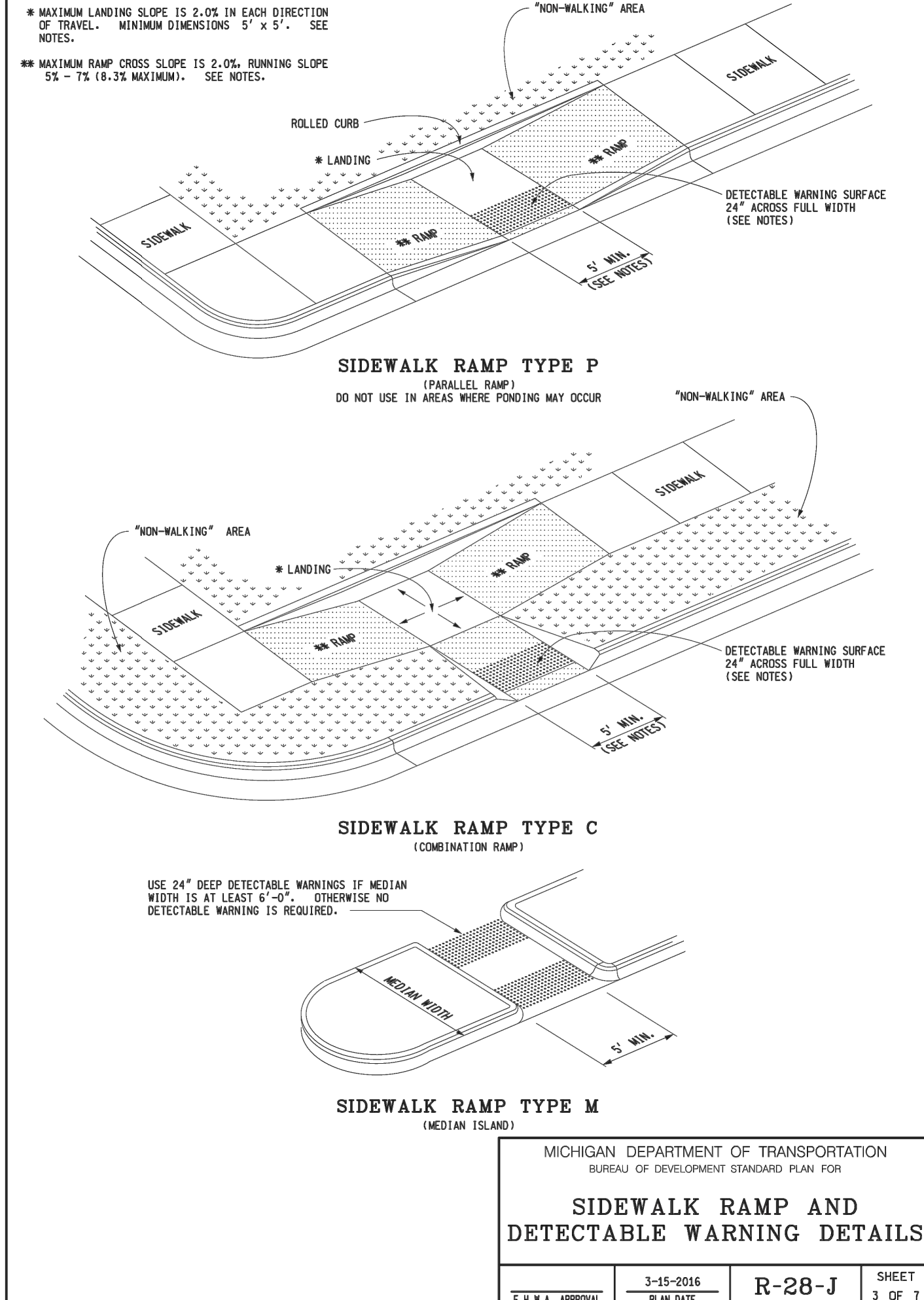
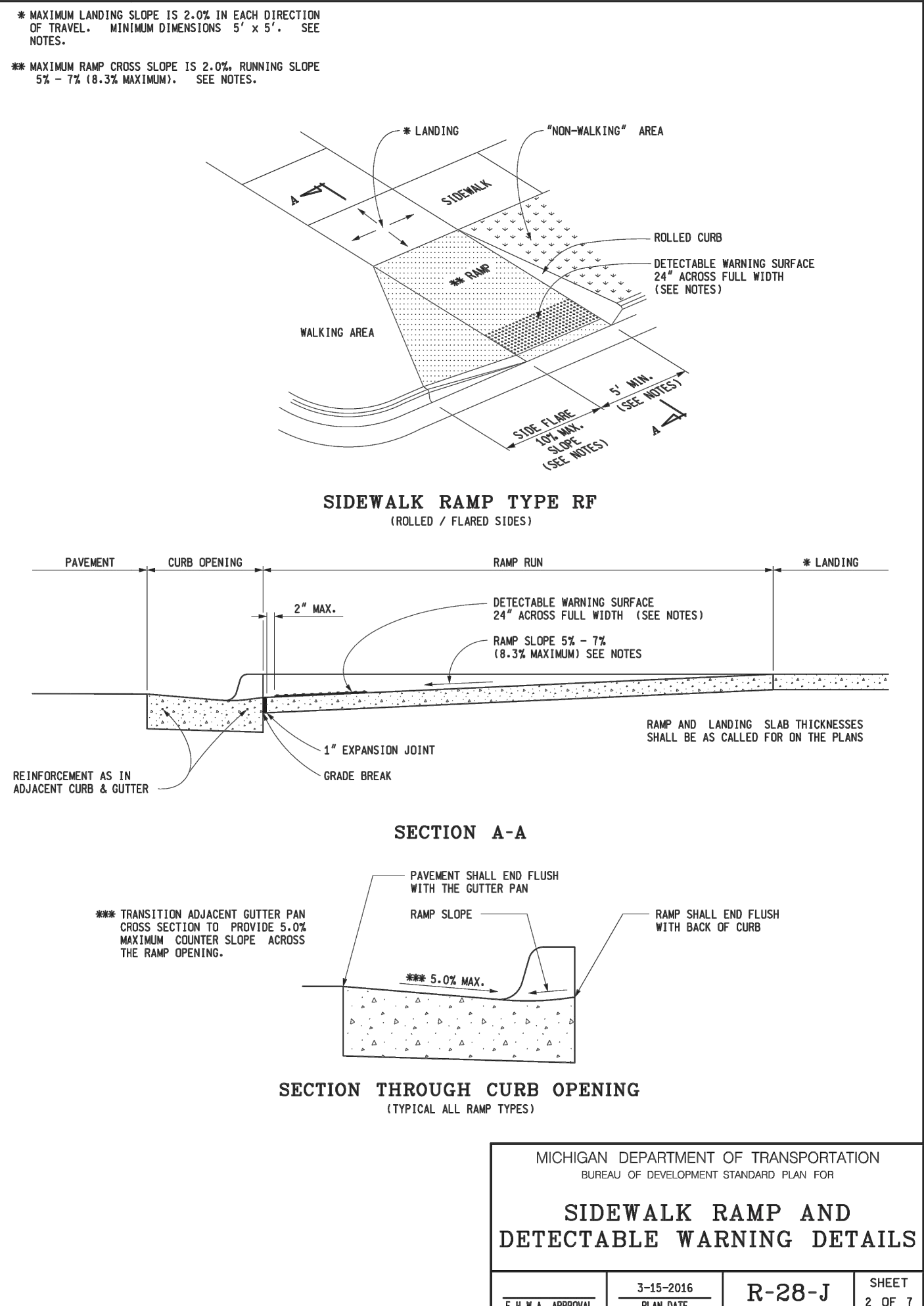
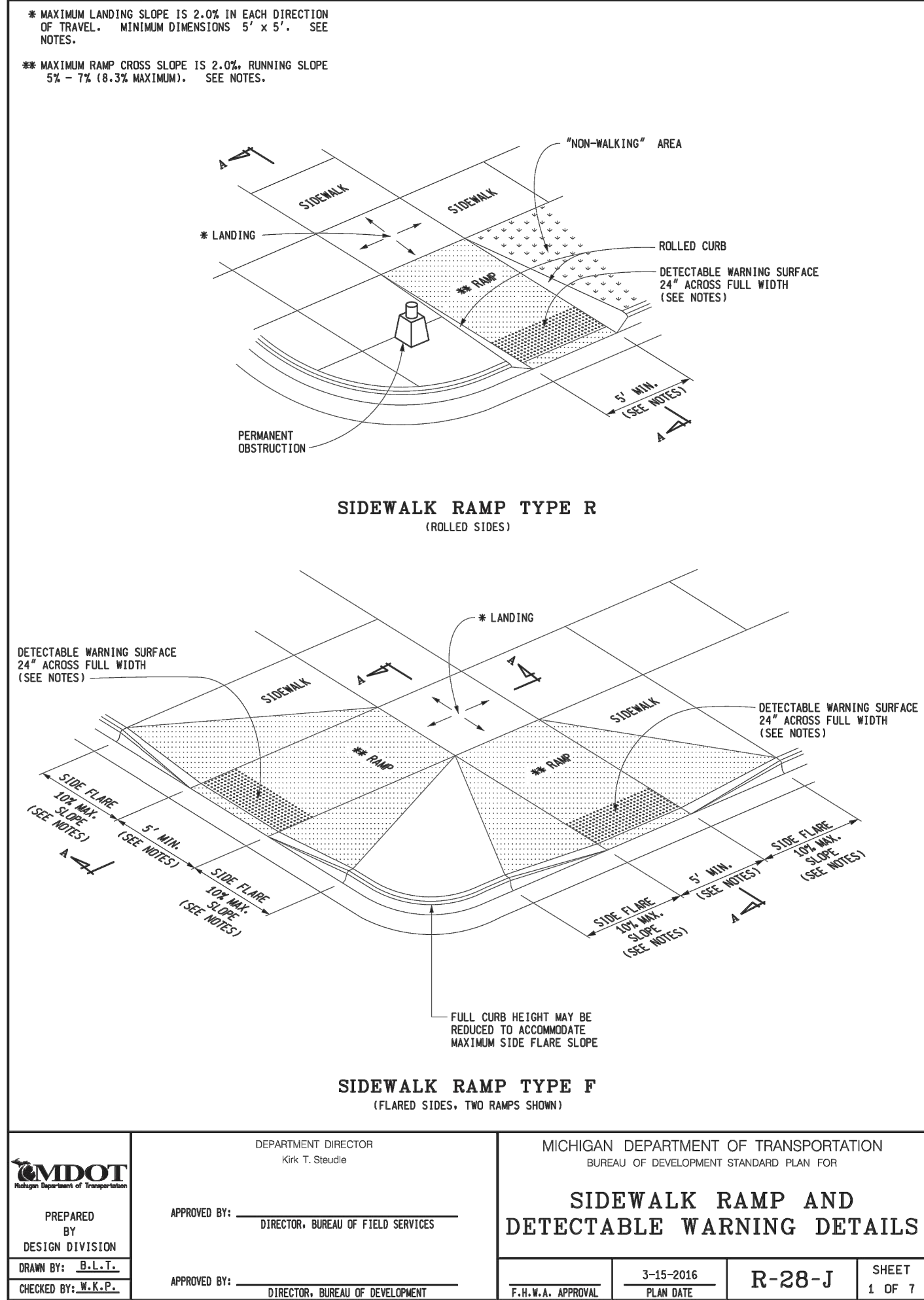
ORIGINAL ISSUE DATE
7/1/2021

Project No. 2021-008

SCALE: 1" = 30'

DRAWING NUMBER:

C-6.3



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THE REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REASONABLE AND HOLD DESIGN PROFESSIONAL ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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THE GODDARD SCHOOL OF BEVERLY HILLS
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LAKE UNION, MI 48360

THE GODDARD SCHOOL - BEVERLY HILLS
TIN RIVE, SE 1/4 SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI

DETAILS - 4

DES. TSS DN. TSS SUR. TSS P.M. TSS

ORIGINAL ISSUE DATE:
7/1/2021

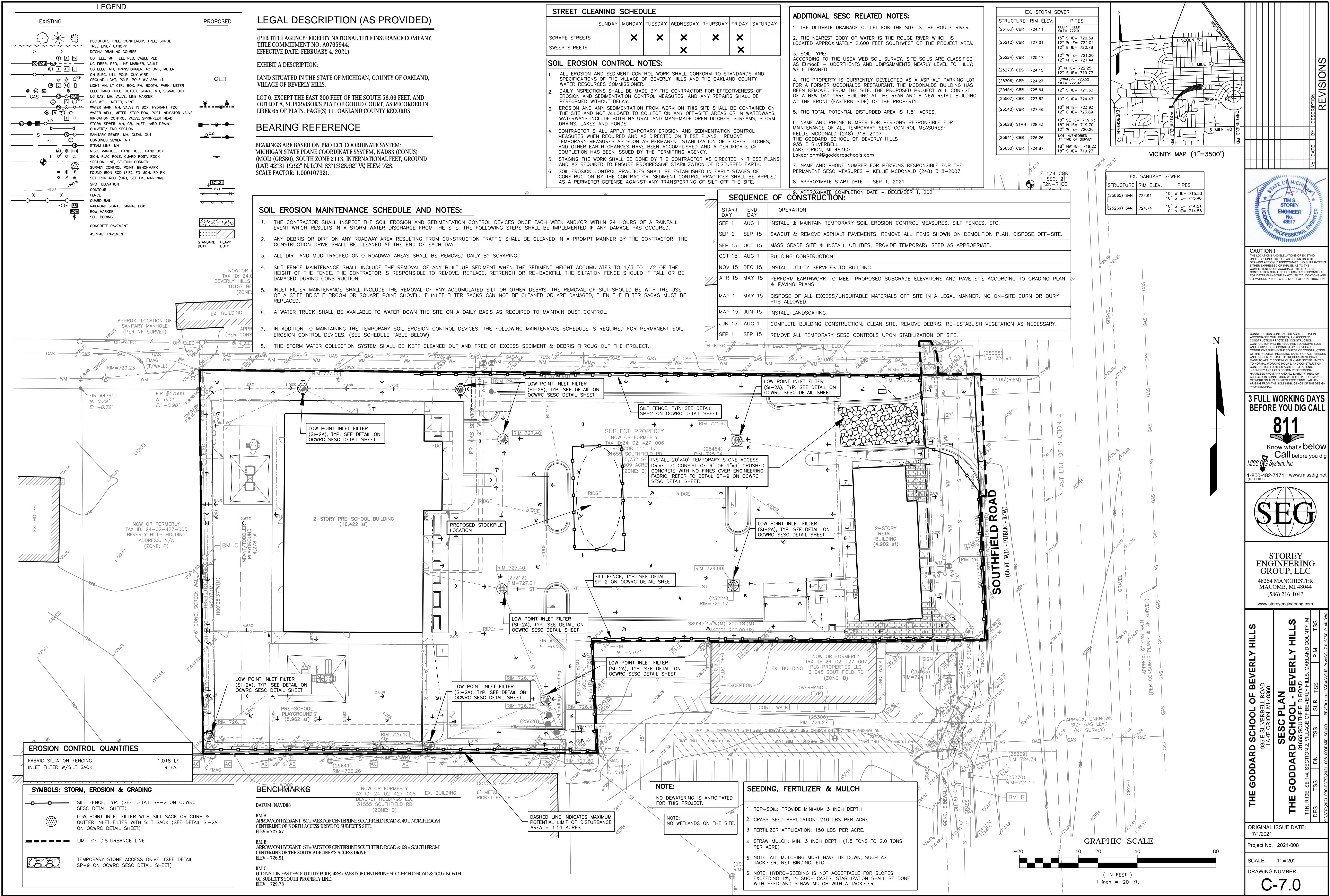
Project No. 2021-008

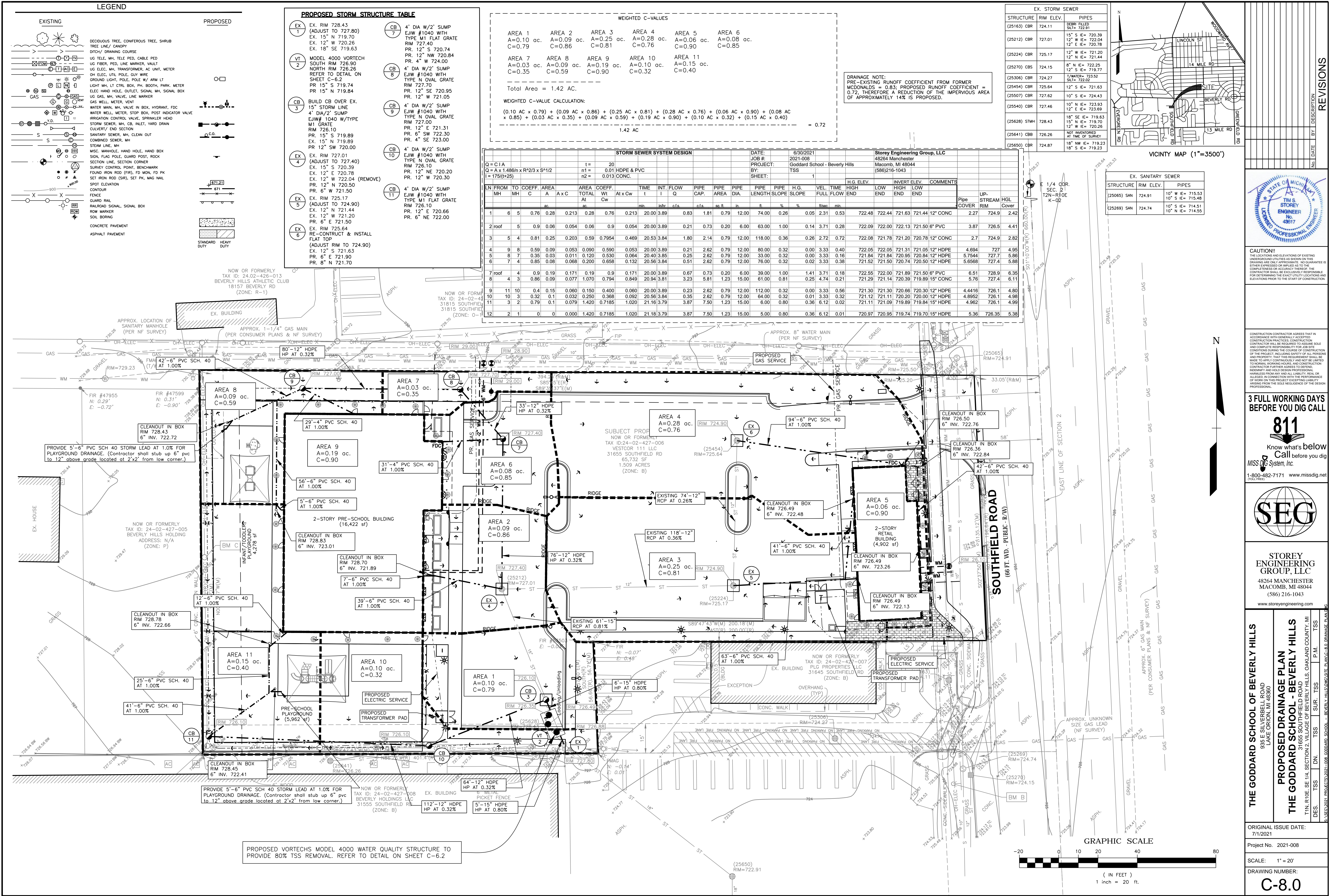
SCALE: 1" = 30'

DRAWING NUMBER:

C-6.4

REVISIONS





GENERAL NOTES

1. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE. (U.N.O.)

2. ALL INTERIOR WALLS ARE 3 1/2" WOOD STUDS U.N.O.

3. ALL EXTERIOR WALLS ARE 5 1/2" WOOD STUDS W/ SHEATHING U.N.O.

4. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK.

5. FIRE EXTINGUISHER CABINETS AND HANGING FIRE EXTINGUISHERS (FEC AND HFE) TO BE LOCATED PER LOCAL FIRE CODES, (PROVIDE BLOCKING AND KEEP CLEAR OF ALL ELECTRICAL AND PLUMBING LINES).

6. PROVIDE SOLID BLOCKING AT ALL CONNECTIONS TO THE WALL. ADD 24" WIDE BY 16" DEEP SHELF ABOVE PHONE SERVICE FOR NETWORKING HARDWARE IN MECHANICAL 103 AS SHOWN. COORDINATE SHELF LOCATION WITH CUH IN FIELD.
7. SEE 19/A1.2 FOR SCREEN PANEL SECTION LOCATED IN TOILET 107B.

8. FRAMING CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES, INCLUDING, BUT NOT LIMITED TO - WALL MOUNTED SHELVING, WALL MOUNTED MONITORS, BASE AND UPPER CABINETS, CUBBIES, CLOSET SHELVING AND RODS, WALL MOUNTED DOOR STOPS, TOILET ROOM PARTITIONS, LAVS, GRAB BARS, MIRRORS, SOAP DISPENSERS, WASTE RECEPTACLES, TOILET PAPER DISPENSERS, MOP SINK, AND ACCESSORIES.

9. SEE SECTION 10/A4.1 FOR TYP. CLOSET SHELVING AND SECTION 06/A4.1 FOR PANTRY SHELVING.

10. 48" H. CORNERS GUARDS SHALL BE INSTALLED ON ALL OUTSIDE CORNERS (FLUSH TO FLOOR - BASE TO ABUT) THROUGHOUT THE BUILDING INCLUDING HALF WALLS AT DIAPER CHANGING SINKS. SEE: 15/A4.1
11. A MIN. CLEAR AREA OF 18" IS REQUIRED TO THE SIDE OF EACH DOOR STRIKE JAMB ON THE PULL SIDE.

12. ALL COUNTERTOP EDGES AND CORNERS SHALL BE ROUNDED.

13. CORDLESS ROLLER SHADES SHALL BE INSTALLED ON ALL OUTSIDE WINDOWS.

14. SEE 09/A1.2 FOR WALL HUNG CHILD HAND WASH LAVATORY MOUNTING HEIGHTS IN CLASSROOMS.

15. SEE 08/A4.1 FOR PHONE, DUPLEX, AND LIGHT SWITCH MOUNTING HEIGHTS IN CLASSROOMS.

1 HOUR CONSTRUCTION

1 HOUR EQUIVALENT
CONSTRUCTION FOR
STATE REVIEW ONLY

NOTES

1. TOTAL STAFF OCCUPANCY FOR GODDARD SCHOOL 32
- * STAFF IS ON SHIFTS THEREFORE NOT WORKING AT THE SAME TIME.
2. INTENT IS TO COMPLY WITH STATE OF MICHIGAN LICENSING RULES FOR CHILD CARE CENTERS (LARA)

REGISTERED DESIGN PROFESSIONAL
IN RESPONSIBLE CHARGE

ARCHITECT OF RECORD:
WILLIAM S. HOBBS, PRESIDENT
HOBBS+BLACK ASSOC., INC.
LICENSE # 141119

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SITE PLAN APPROVAL 06/30/21

65% REVIEW 06/17/21

DATE ISSUED

DRAWN BY

CHECKED BY

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ARCHITECTS

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THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
31655 SOUTHFIELD ROAD
BEVERLY HILLS, MI 48025

PROJECT



CONSULTANT

GODDARD SCHOOL
FLOOR PLANS

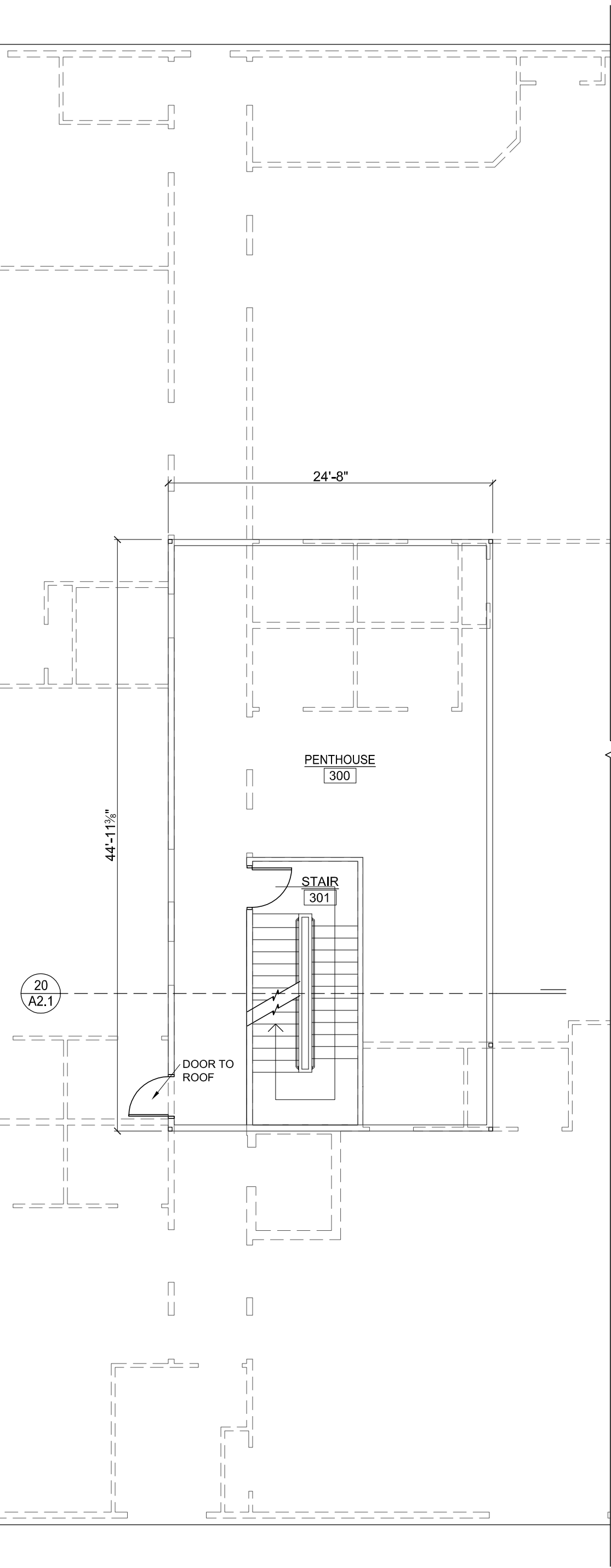
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21-705

PROJECT NUMBER

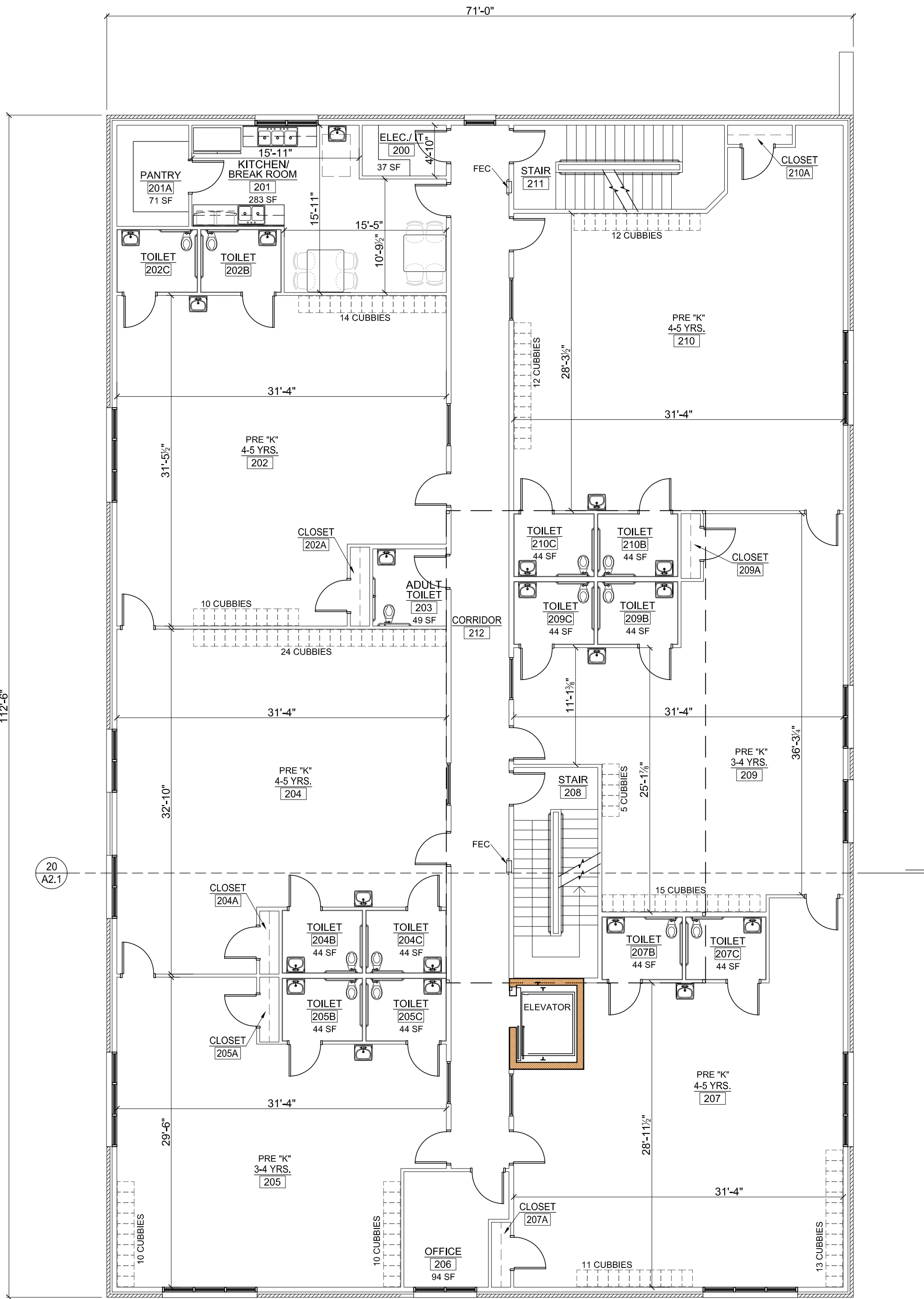
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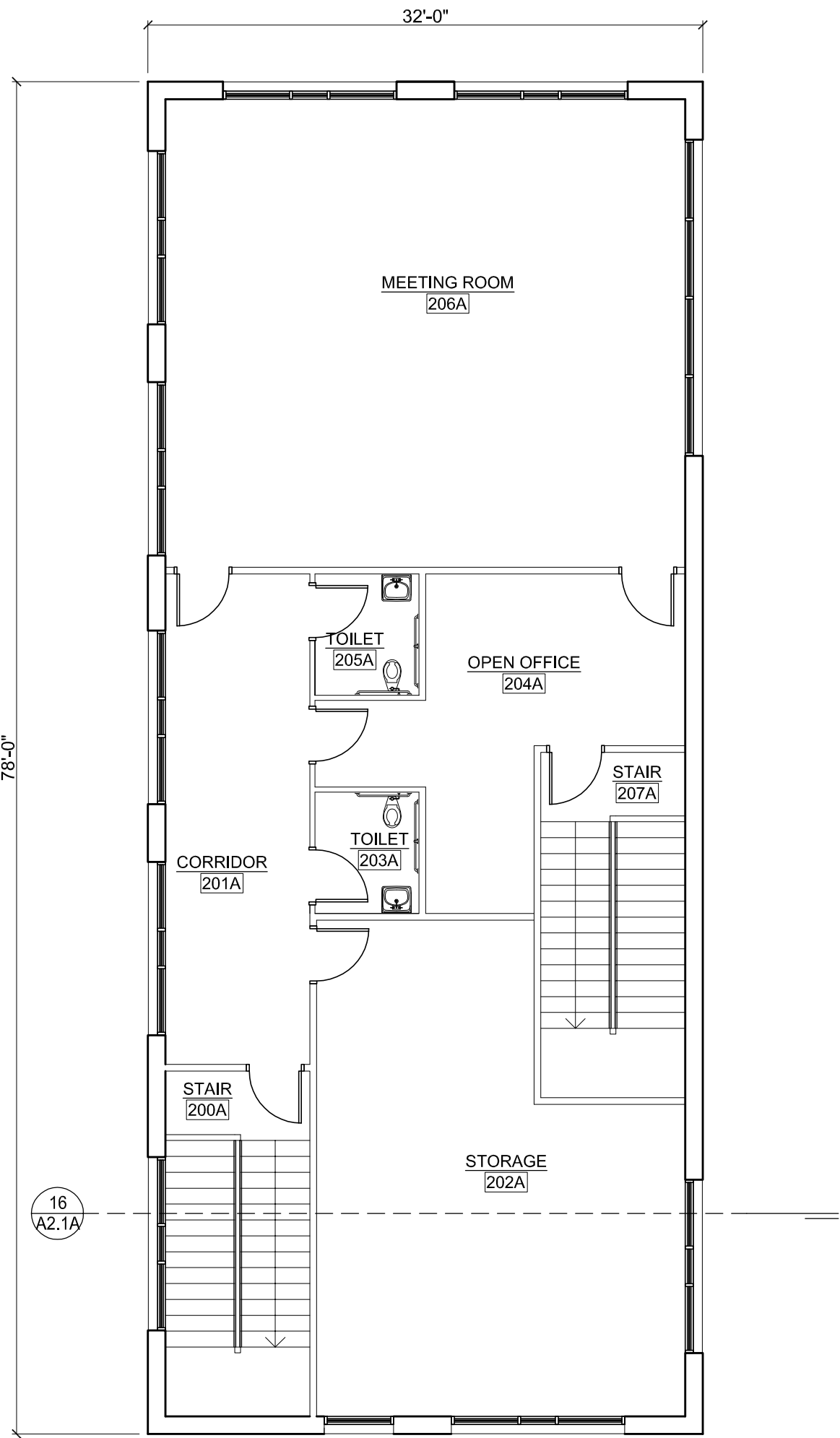


03 PENTHOUSE FLOOR PLAN

SCALE: 1/8" = 1'-0"

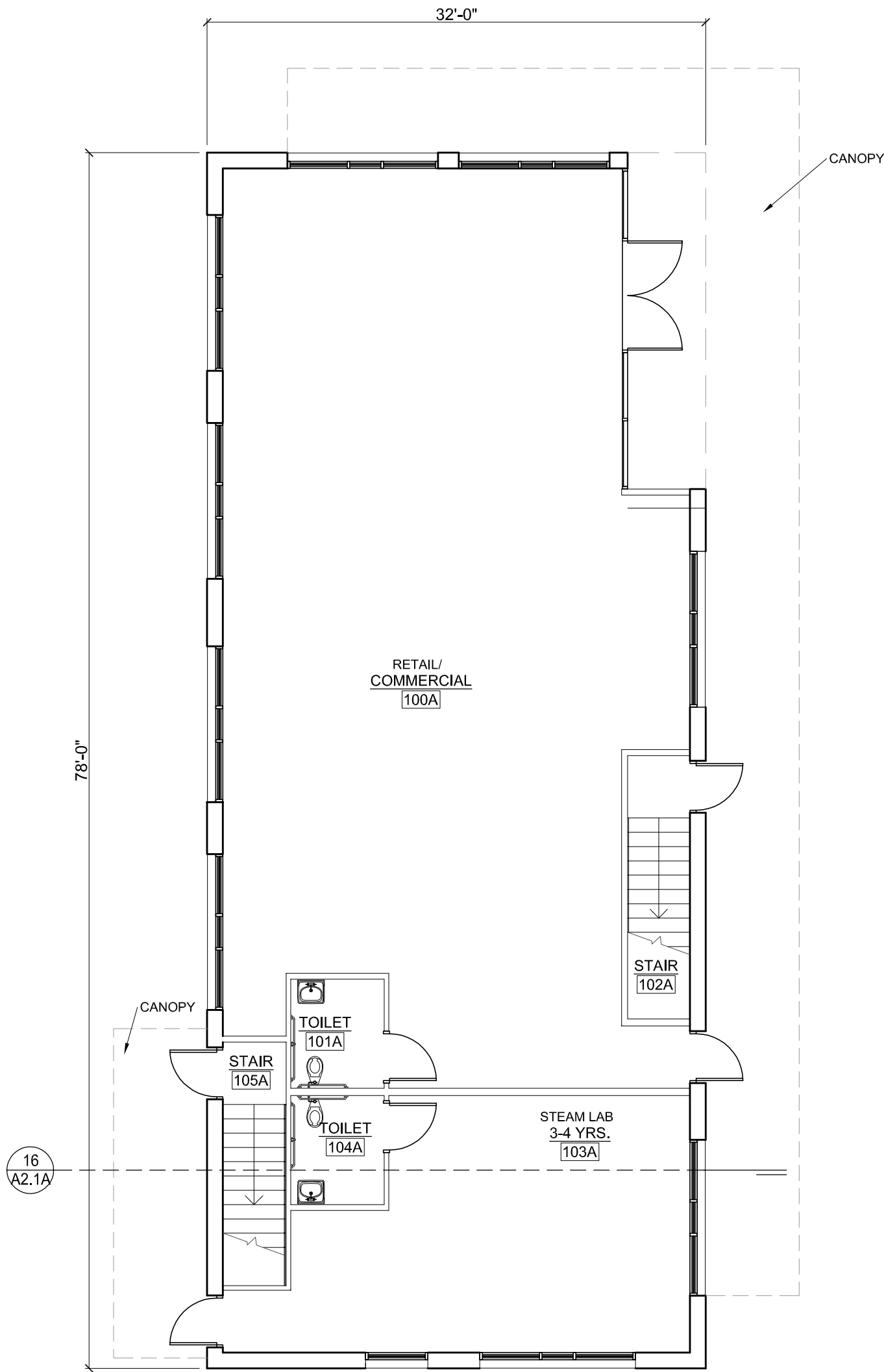


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Date: Jul 01, 2021, 8:50am Layout: A1.1A Plotted by: alichu



02 UPPER LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"



01 LOWER LEVEL FLOOR PLAN

SCALE: 1/8" = 1'-0"



NOTES

1. TOTAL STAFF OCCUPANCY FOR GODDARD ANNEX RETAIL 3
*OCCUPANTS OF GODDARD SCHOOL WILL OCCUPY THIS SPACE WHEN NOT WORKING
2. INTENT IS TO COMPLY WITH STATE OF MICHIGAN LICENSING RULES FOR CHILD CARE CENTERS (LARA)

| | |
|--------------------|----------|
| SITE PLAN APPROVAL | 06/30/21 |
| GS: REVIEW | 06/17/21 |
| DATE ISSUED | |

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THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
31655 SOUTHELD ROAD
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PROJECT



CONSULTANT

GODDARD ANNEX
FLOOR PLANS

SHEET TITLE

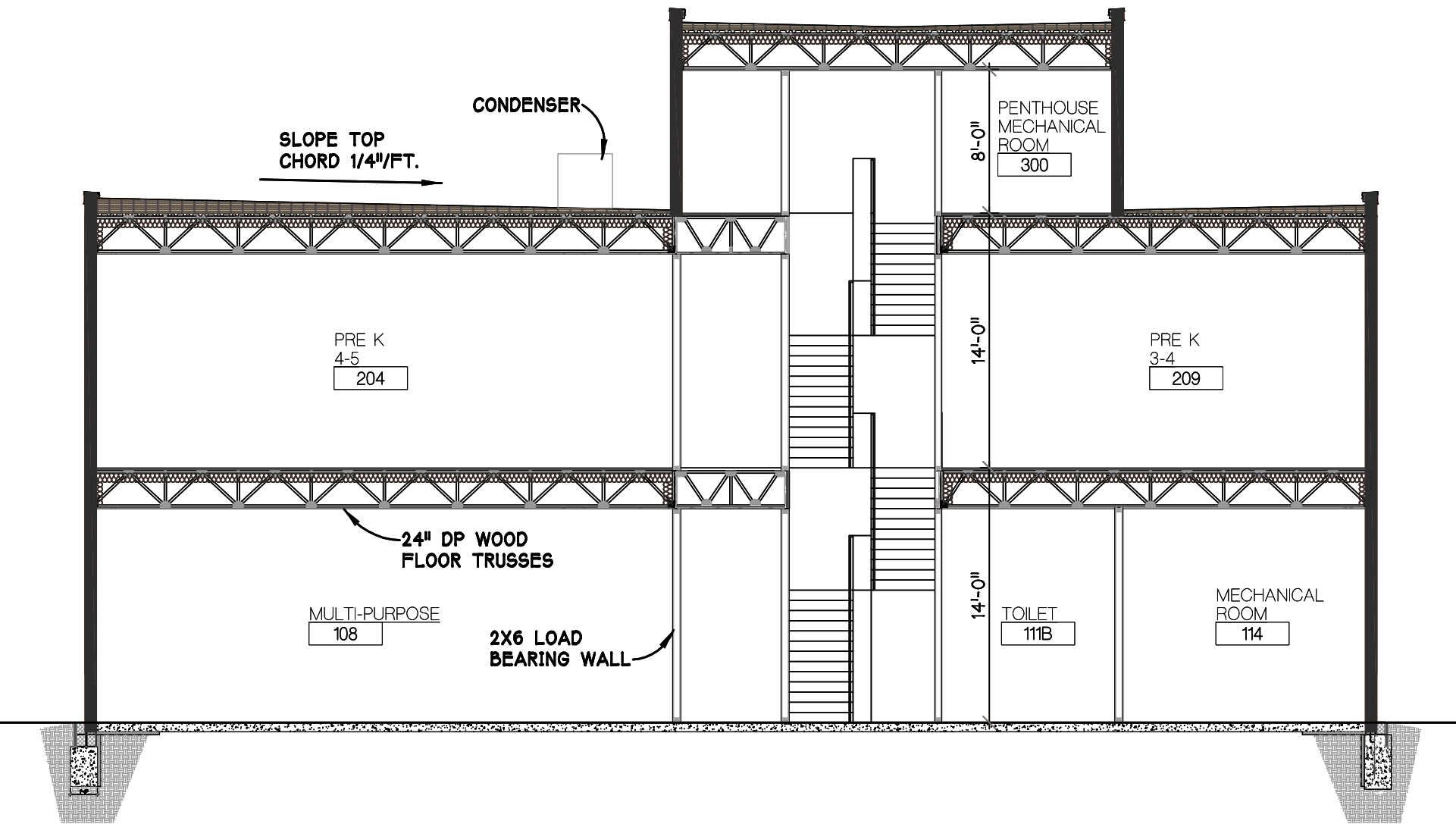
21-705

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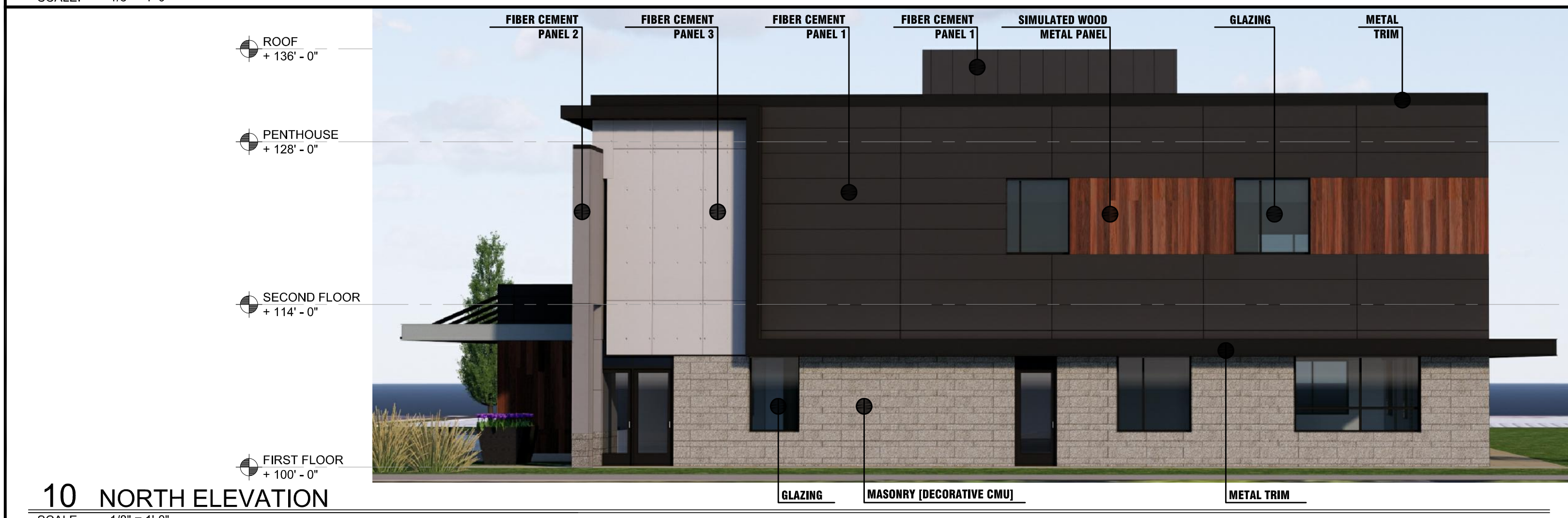
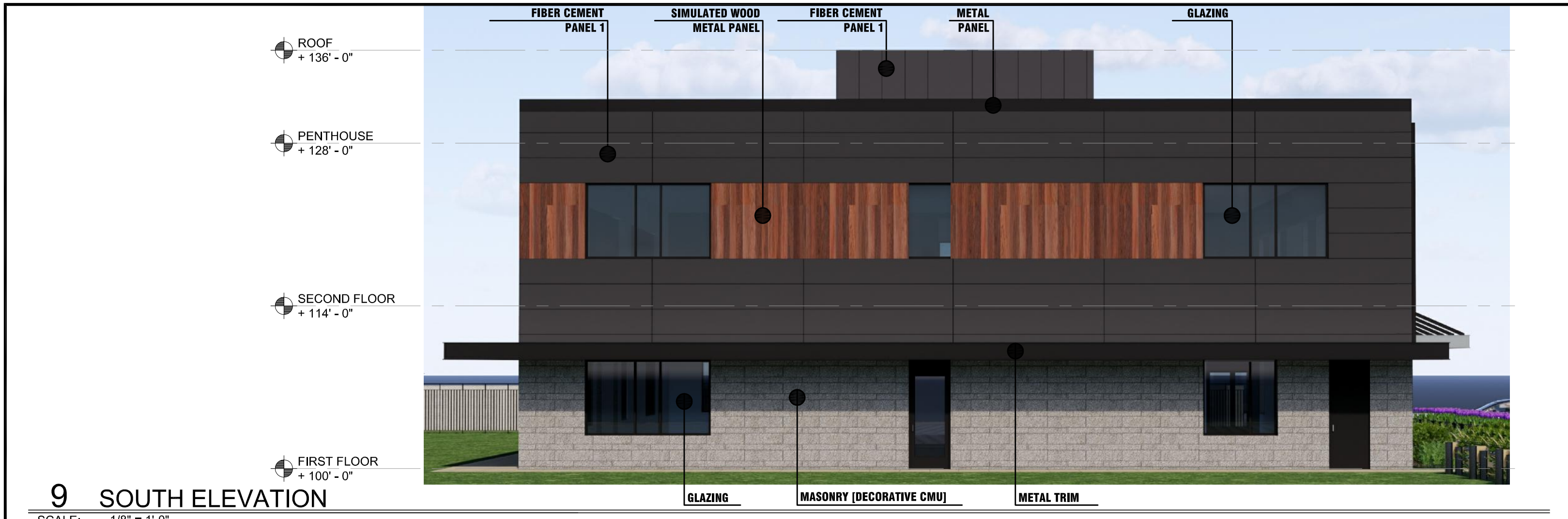
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Date: Jul 01, 2021, 9:53am Layout: CDS Potted by: shenhu



20 CROSS SECTION
SCALE: 1/8" = 1'-0"



12 EAST ELEVATION
SCALE: 1/8" = 1'-0"

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THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
31655 SOUTHFIELD ROAD
BEVERLY HILLS, MI 48025

PROJECT
WILLIAM S. HOBBS
ARCHITECT
No. 1301014119
LICENSED ARCHITECT
CONSULTANT

EXTERIOR
ELEVATIONS AND
CROSS SECTION

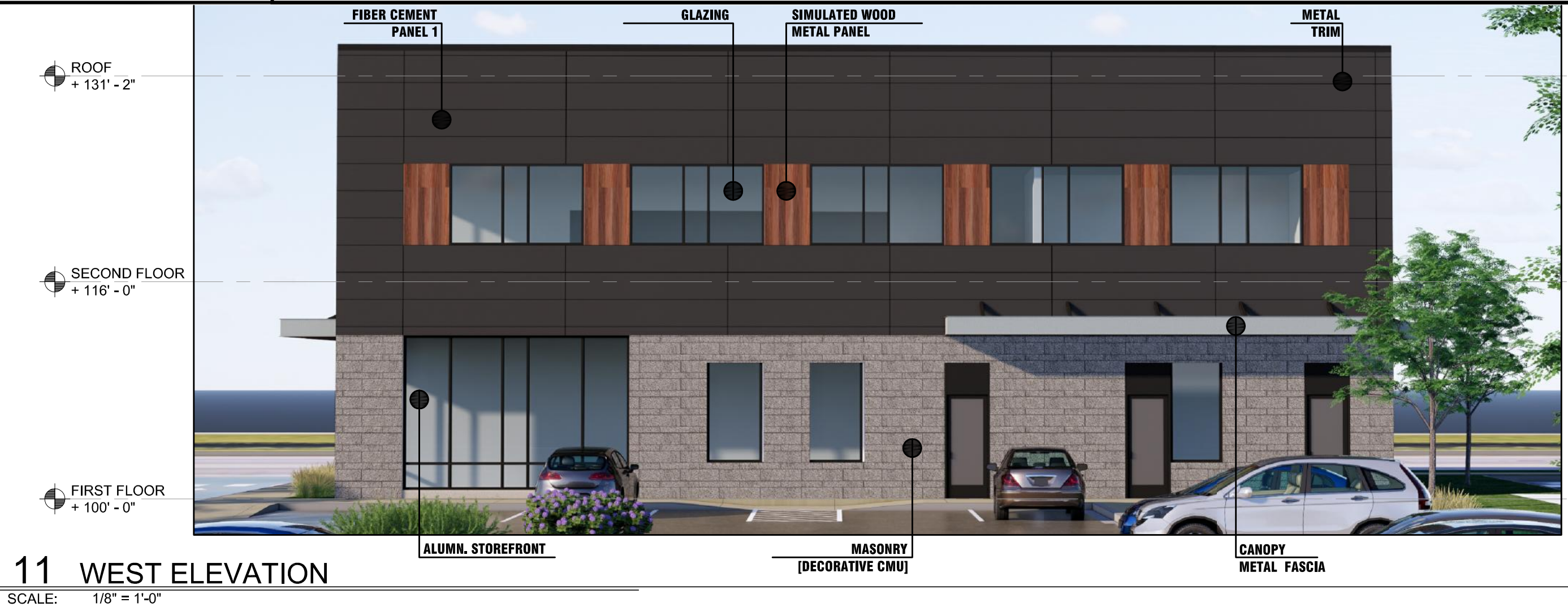
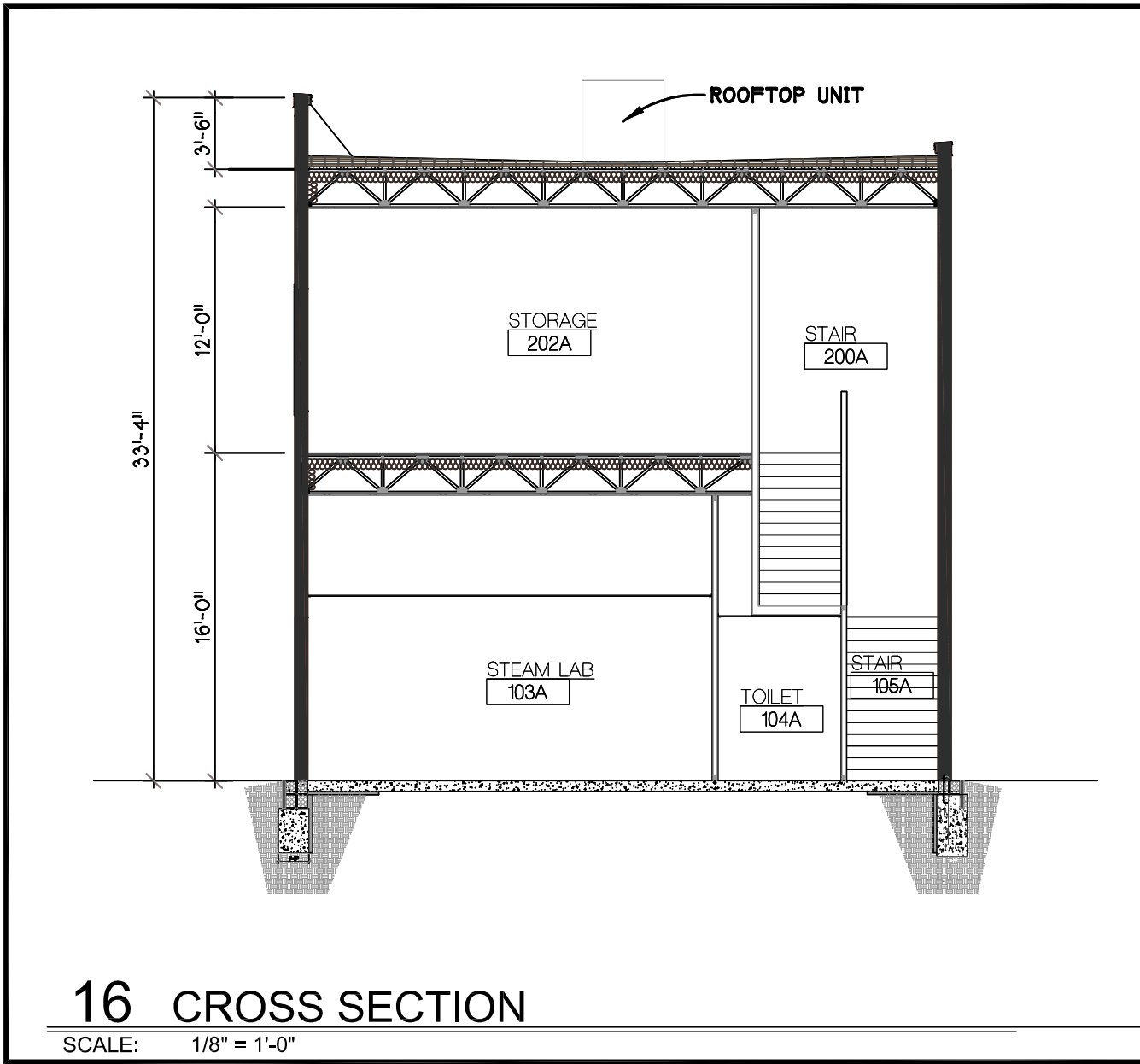
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PROJECT NUMBER

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THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
31655 SOUTHFIELD ROAD
BEVERLY HILLS, MI 48025

PROJECT
CONSULTANT
ARCHITECT
WILLIAM S. HOBBS
No. 1301014119
LICENSED ARCHITECT

GODDARD ANNEX
EXTERIOR
ELEVATIONS AND
CROSS SECTION

SHEET TITLE
21-705
PROJECT NUMBER
A2.1A
SHEET NUMBER

seal:



client:

**THE GODDARD
SCHOOL OF LAKE
ORION**
935 E. Silverbell Road
Lake Orion Michigan
48360

project:

**THE
GODDARD
SCHOOL**
Beverly Hills

project location:

**Village of Beverly
Hills, Michigan**
31655 Southfield Rd.

sheet title:

**LANDSCAPE
PLANTING DETAIL**

job no./issue/revision date:

LS21.076.06 REVIEW 6-11-2021
SPA 6-30-2021

drawn by:

JP, DK

checked by:

FP

date:

6-08-2021

notice:

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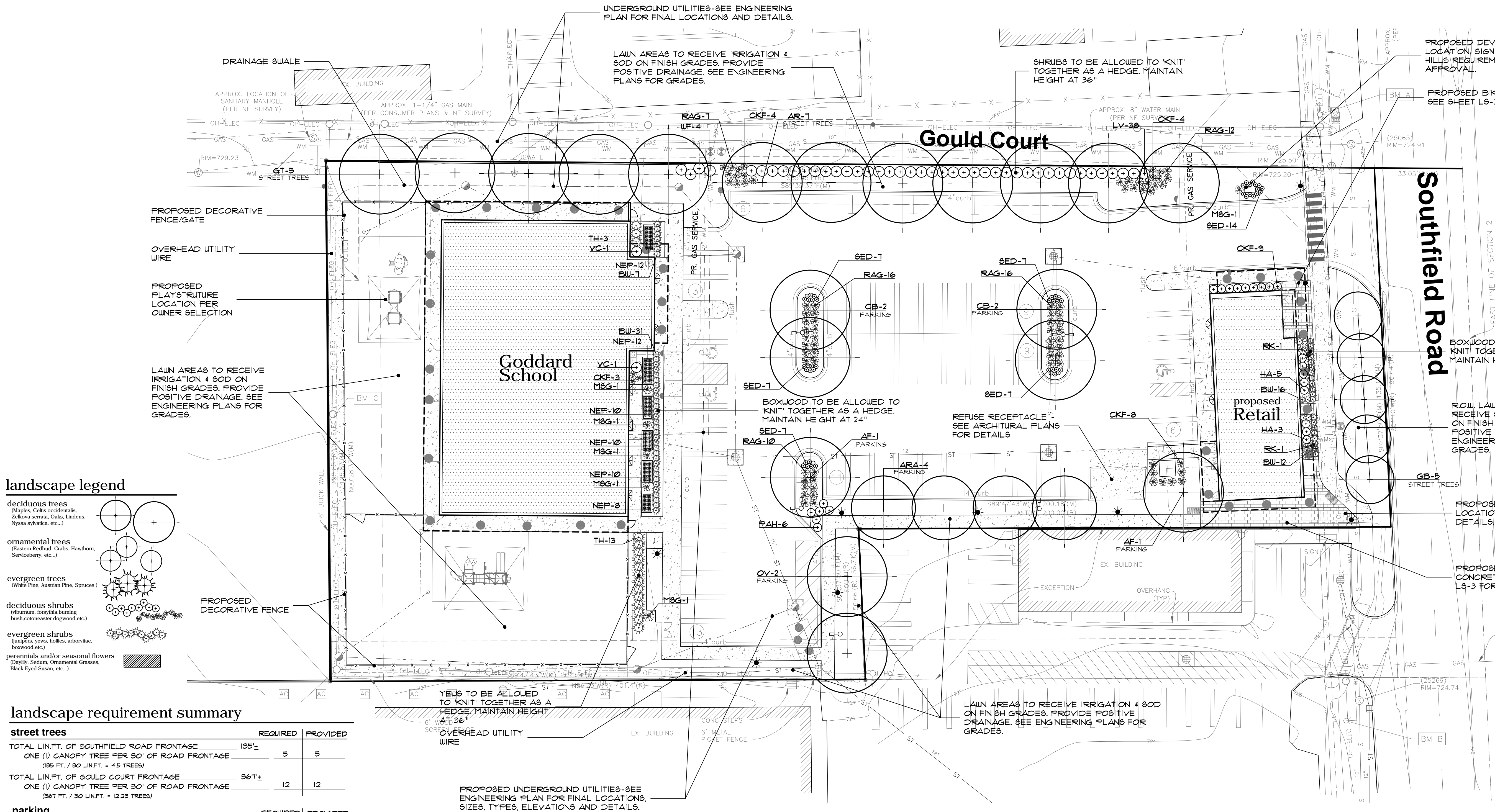
The location and elevations of existing
underground utilities as shown on this
drawing are only approximate. no guarantee
is either expressed or implied as to the
completeness of accuracy. contractor shall
be exclusively responsible for determining the
exact location and elevation prior to the start
of construction

project no:

LS21.076.06

sheet no:

LS-1 of 3



landscape legend

- deciduous trees**
(Maples, Colds occidentalis,
Zelkova serrata, Oaks, Lindens,
Nyssa sylvatica, etc...)
- ornamental trees**
(Eastern Redbud, Crab, Hawthorn,
Serviceberry, etc...)
- evergreen trees**
(White Pine, Austrian Pine, Spruces)
- deciduous shrubs**
(Vitumn, Forsythia, Burning
bush, Cotoneaster dogwood, etc...)
- evergreen shrubs**
(Junipers, yews, hollies, arborvitae,
boxwood, etc...)
- perennials and/or seasonal flowers**
(Daylily, Sedum, Ornamental Grasses,
Black Eyed Susan, etc...)

landscape requirement summary

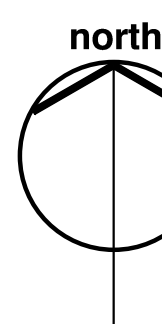
| street trees | REQUIRED | PROVIDED |
|--|---------------|----------|
| TOTAL LINFT. OF SOUTHFIELD ROAD FRONTAGE | 135'± | 5 |
| ONE (1) CANOPY TREE PER 30' OF ROAD FRONTAGE (135 FT. / 30 LINFT. = 4.5 TREES) | 5 | 5 |
| TOTAL LINFT. OF GOULD COURT FRONTAGE | 367'± | 12 |
| ONE (1) CANOPY TREE PER 30' OF ROAD FRONTAGE (361 FT. / 30 LINFT. = 12.3 TREES) | 12 | 12 |
| parking | REQUIRED | PROVIDED |
| TOTAL AREA OF PARKING AND DRIVE AISLE | 22,423 SQ.FT. | 11 |
| ONE (1) DECIDUOUS OR EVERGREEN TREE PER 2,000 SQ.FT. (22,423 SPACES / 2,000 SQ.FT. PER TREE = 11.46 TREES) | 11 | 12 |
| 3' HIGH SHRUB HEDGE VISIBLE FROM STREET OR ACCESS DRIVE (200' (GOULD COURT VISIBILITY) / 3.5' PER SHRUB = 57.1 SHRUBS) | 57 | 61 |

landscape plan for:

“The Goddard School” Village of Beverly Hills, Michigan

note:

unless noted otherwise, numerical value on landscape
quantities specified on plan take precedence over
graphic representation.



scale: 0' 20' 40' 80' 120'
1" = 40' - 0"

general landscape notes:

1. LANDSCAPE CONTRACTOR SHALL VISIT THE SITE, INSPECT EXISTING CONDITIONS, REVIEW PROPOSED PLANTINGS AND RELATED WORK. CONTACT THE OWNER AND/OR LANDSCAPE ARCHITECT WITH ANY CONCERNS OR DISCREPANCY BETWEEN THE PLAN, PLANT MATERIAL LIST, AND/OR SITE CONDITIONS.
2. PRIOR TO BEGINNING OF CONSTRUCTION ON ANY WORK, CONTRACTORS SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES: GAS, ELECTRIC, TELEPHONE, CABLE TO BE LOCATED BY CONTACTING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE ALL RELATED WORK ACTIVITIES WITH OTHER TRADES AND REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER PRIOR TO COMMENCING.
3. NUMERICAL VALUE ON THE LANDSCAPE QUANTITIES SPECIFIED ON THE PLAN TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION. VERIFY ANY CONCERN/DISCREPANCY WITH LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION AND PLANT MATERIAL LOCATION TO BE ADJUSTED ON SITE IF NECESSARY.
5. ALL SUBSTITUTIONS OR DEVIATIONS FROM THE LANDSCAPE PLAN MUST BE APPROVED BY VILLAGE OF BEVERLY HILLS AND LANDSCAPE ARCHITECT.
6. ALL LARGE TREES AND EVERGREENS TO BE STAKED, GUYED AND WRAPPED AS DETAILED, SHOWN ON PLAN.
7. PLANT BEDS TO BE DRESSED WITH MIN. 4" OF FINELY DOUBLE SHREDDED HARD BARK MULCH.
8. DIG SHRUB PITS 1' LARGER THAN SHRUB ROOT BALLS AND TREE PITS 2' LARGER THAN ROOT BALL. BACK FILL WITH ONE PART TOP SOIL AND ONE PART SOIL FROM EXCAVATED PLANTING HOLE.
9. NATURAL COLOR, FINELY SHREDDED HARDWOOD BARK MULCH REQUIRED FOR ALL PLANTINGS.
10. REMOVE ALL TWINE, WIRE AND BURLAP FROM TREE AND SHRUB EARTH BALLS, AND FROM TREE TRUNKS. 4" THICK BARK MULCH FOR TREES IN 4" DIA. CIRCLE WITH 3" PULLED AWAY FROM TRUNK. 4" THICK BARK MULCH FOR SHRUBS AND 4" THICK BARK MULCH FOR PERENNIALS.
11. PLANT MATERIAL QUALITY & INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN ASSOCIATION OF NURSEYMEN LANDSCAPE STANDARDS.
12. PROVIDE PEAT SOD FOR ALL NEW AND DISTURBED LAWN AREAS UNLESS NOTED OTHERWISE.
13. ALL PLANTING AREAS TO BE PREPARED WITH APPROPRIATE SOIL MIXTURES AND FERTILIZER BEFORE PLANT INSTALLATION.
14. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCES FROM SIDEWALKS, CURBS AND PARKING STALLS:
a). SHADE TREES 5 FT.
b). ORNAMENTAL AND EVERGREEN TREES 10 FT.
c). SHRUBS THAT ARE LESS THAN 1 FOOT TALL AND WIDE AT MATURITY 2 FT.
15. NO TREES OR EVERGREENS TO BE INSTALLED OVER ANY PROPOSED OR EXISTING UTILITY LINES AS SHOWN ON THE OVERALL LANDSCAPE PLAN. SEE ENGINEERING PLANS FOR LOCATION AND DETAILS.

Gould Court

Southfield Road

Goddard School

proposed Retail

seal:



client:

**THE GODDARD
SCHOOL OF LAKE
ORION**
935 E. Silverbell Road
Lake Orion Michigan
48360

project:

**THE
GODDARD
SCHOOL**
Beverly Hills

project location:

**Village of Beverly
Hills, Michigan**
31655 Southfield Rd.

sheet title:

AMENITY PLAN

job no./issue/revision date:

LS21.076.06 REVIEW 6-11-2021
SPA 6-30-2021

drawn by:
JP, DK

checked by:

FP

date:

6-08-2021

notice:

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and Associates

Do Not scale drawings. Use
figured dimensions only



The location and elevations of existing
underground utilities as shown on this
drawing are only approximate. no guarantee
is either expressed or implied as to the
completeness of accuracy. contractor shall be
exclusively responsible for determining the
exact location and elevation prior to the start
of construction

project no:

LS21.076.06

sheet no:

LS-3 of 3



A decorative pedestrian
concrete walk
BROOM FINISH WITH 3" SMOOTH
TROUPEL FINISH BETWEEN SCORING



B concrete planter
TOTAL OF 6-CONDITIONS
CONCRETE PLANTER MANUFACTURER, SIZE
AND COLOR PER OWNER SELECTION



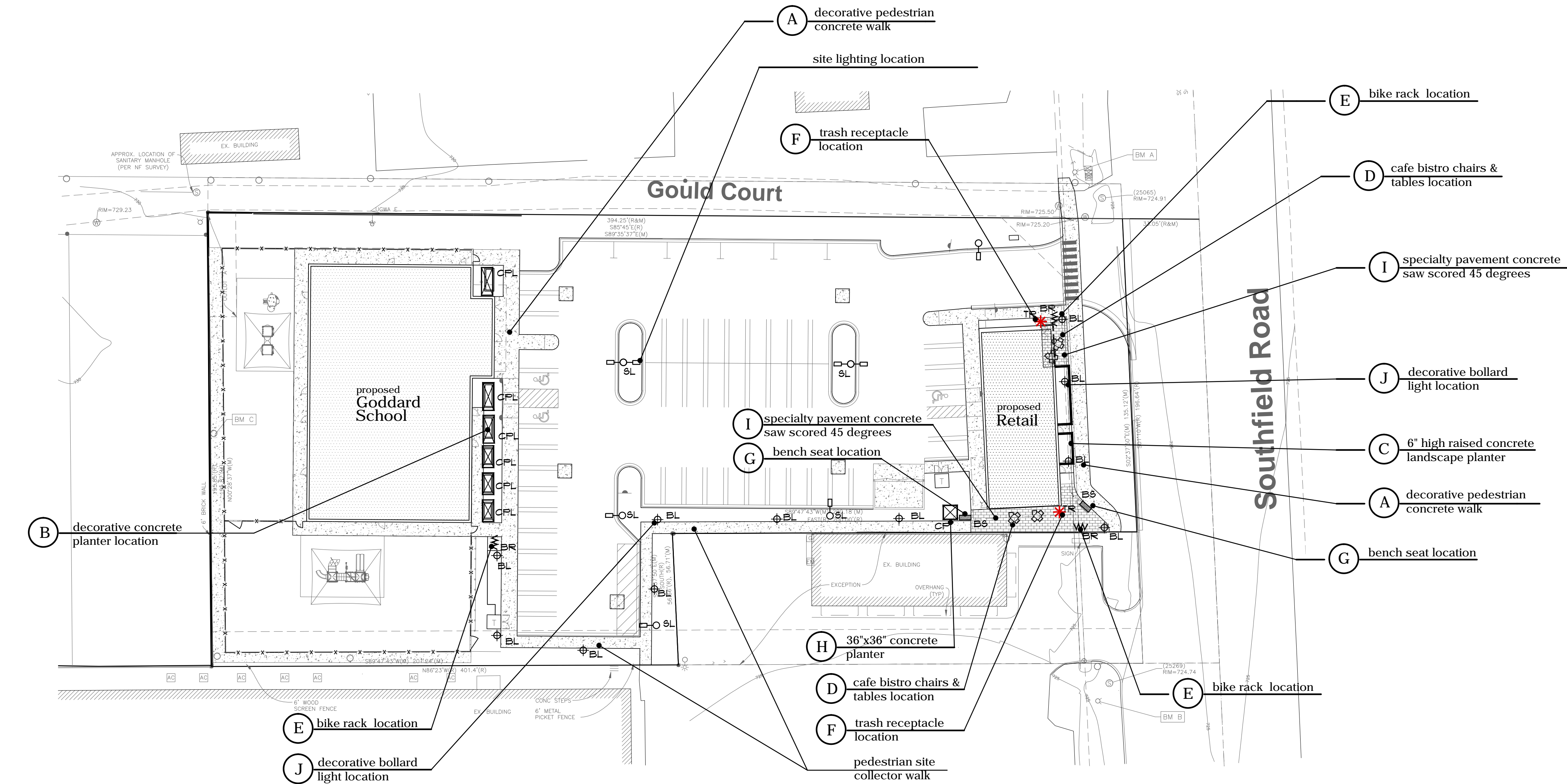
C 6" high concrete planter
6" HIGH CONCRETE PLANTER BETWEEN
SIDE WALK AND RETAIL BUILDING



D cafe bistro chairs and tables
MANUFACTURED BY BY ANOVA, INC.
211 NORTH LINDBERGH BLVD. SUITE 200 ST. LOUIS, MISSOURI
63141-7804
TOLL FREE NO. (800)291-1321 WWW.ANOVAFURNISHINGS.COM
1- BISTRO TABLE
MODEL NO. T223TR OR EQUAL
(31"H X 34"W X 36"L)
4-BAR CHAIRS
MODEL NO. T223SR OR EQUAL
(39"H X 20"W X 23"L)
SLAT COLOR: CEDAR
FRAME COLOR: TEXTURED PENTER



E bicycle rack
(3-CONDITIONS)
BIKE RACK BY MADRAX.
MODEL NO. 10238-1G (9F.8G)
SURFACE PLATE MOUNT) 2 3/8"
O.D.
BLACK POWDER-COATED LOOP
OR EQUAL



site amenity reference location plan

SCALE: 1"=30'-0"

- | | | | |
|--|------------------------------------|--|---------------------------|
| | BIKE RACK | | TRASH RECEPTICAL |
| | BENCH SEAT (WITH BACKS) | | CAFE SEATING AND TABLE |
| | BOLLARD LIGHT FIXTURE | | CONCRETE PLANTER |
| | DECORATIVE POLE & LIGHT FIXTURE | | 36"X 36" CONCRETE PLANTER |



F trash receptacle
(2-CONDITIONS)
MANUFACTURED BY ANOVA, INC.
OR EQUAL
211 NORTH LINDBERGH BLVD.
SUITE 200
ST. LOUIS, MISSOURI 63141-7804
TOLL FREE NO. (800)291-1321
WWW.ANOVAFURNISHINGS.COM
MODEL NO. LEX33 OR EQUAL
SIZE CAPACITY: 33 GALLON
FINISH COLOR: TEXTURED PENTER



G decorative bench
seating
TOTAL OF 2-CONDITION
MANUFACTURED BY BY
ANOVA, INC.
WWW.ANOVAFURNISHINGS.COM
MODEL NO. 51PL OR EQUAL
DESCRIPTION: 6" WIDE BENCH
FINISH: TEXTURED PENTER



H decorative upright
concrete planter
MANUFACTURED BY MAUSAU OR EQUAL
PO BOX 1520 MAUSAU, WI. 54402-1520
TOLL FREE NO. (800)398-8728
WWW.MAUSAUTLE.COM
MODEL TF416 OR EQUAL
SIZE 36"X36"X36" HIGH



I specialty pavement
concrete saw scored 45 degrees



J decorative bollard light
(see photometric plan for details)



10 PRESCHOOL PLAY STRUCTURE

A 3D rendering of a colorful playground structure. The main structure features a large blue canopy supported by red poles. Below the canopy are green arches and a blue tunnel-like section. To the right is a small brown playhouse with a green roof and a red base, resembling a treehouse. The entire scene is set on a light gray shadowed ground against a white background.

REFER TO 09/C1.2

11 TODDLER PLAYGROUND RENDERING

A 3D rendering of a large, colorful playground structure. It features a large blue canopy supported by red pillars. The structure includes two blue slides, a green play panel with a blue circle, and a yellow play panel with a blue square. A brown ramp with yellow railings leads to a platform. The structure is set on a white background.

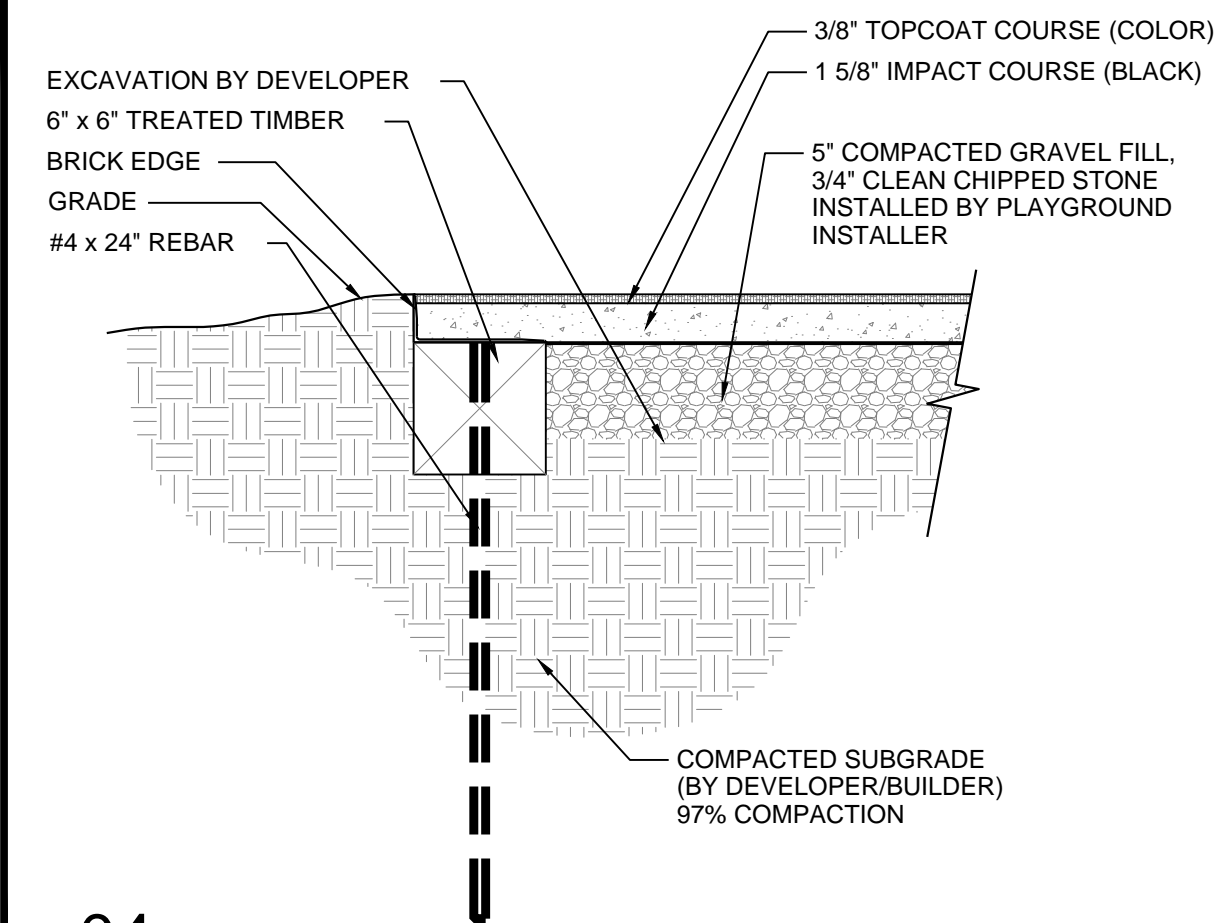
12 PRESCHOOL PLAYGROUND RENDERING

DEVELOPER / GENERAL CONTRACTOR'S PLAYGROUND RESPONSIBILITIES

- PLAYGROUND STRUCTURE AND SHADE STRUCTURE APPROVALS OR PERMITS IF REQUIRED. APPROVALS AND PERMITTING MAY BE REQUIRED FOR COLOR SCHEME, HEIGHT, MANUFACTURER DESIGN METHODS, ETC.
- UTILITIES CANNOT BE LOCATED UNDER OR OVER PLAYGROUND BOXES.
- ELECTRIC AND WATER ARE NEEDED ON SITE. FOR THE PLAYGROUND INSTALLERS USE. IF NOT, OTHER PRIOR ARRANGEMENTS SHALL BE MADE.
- SOILS WITHIN THE PLAYGROUND BOX DIMENSIONS SHOULD BE SUITABLE FOR SLAB AT GRADE INSTALLATIONS. SOILS SHOULD NOT CONTAIN DEBRIS AND COMPACTED TO 97% IN ACCEPTED INCREMENTS CONTAINING SUITABLE SOIL.
- PROVIDE GODDARD SYSTEM INC.'S PROJECT MANAGER WITH A TIMELINE FOR PLAYGROUND INSTALLATION. ROUGH GRADE IS REQUIRED AND SIDEWALKS SHALL BE INSTALLED PRIOR TO PLAYGROUND INSTALLATION. SOD, FENCE AND PARKING LOT TOP COAT.
- LOCATE PLAYGROUND BOXES PER SITE PLAN, EXCAVATED 7" DEEP. PLAYGROUND BOXES CANNOT EXCEED A MAXIMUM 2% GRADE. (DTL. 2/C3.1)
- SUB-GRADE BACKFILL MUST BE COMPACTED TO AT LEAST 97% AND SHOULD NOT CONTAIN MATERIALS SUCH AS LARGE ROCKS, SCRAP WOOD, CONCRETE SPOILS, ETC. PLAYGROUND INSTALLERS NEED TO DRILL ACCURATE HOLES FOR PLAYGROUND POLE INSTALLATION.
- INSTALL DRAINAGE SYSTEM TO EXCAVATED PLAYGROUND BOXES PER SITE PLAN. (DTL. 13/C3.1)
- ENSURE ADEQUATE AREA FOR PLAYGROUND INSTALLERS. STAGING AREA NEEDED TO UNLOAD AND PRE-ASSEMBLE APPROX. 1,000 CUBIC FOOT SHIPMENT OF PLAYGROUND EQUIPMENT. HOLDING AREA NEEDED TO RECEIVE DELIVERY OF APPROXIMATELY 40-50 TONS OF CRUSHED STONE. PARKING AREA NEEDED FOR TWO TRUCKS AND ONE 30' TRAILER OF EXCAVATING EQUIPMENT.
- IN ORDER TO AVOID POSSIBLE DAMAGE, PARKING LOTS SHOULD NOT HAVE TOPCOAT APPLIED AND FENCING SHOULD NOT BE INSTALLED UNTIL PLAYGROUND IS COMPLETE. IF FENCING IS INSTALLED, LEAVE OUT NECESSARY SECTIONS TO PROVIDE ACCESS TO PLAYGROUND AREA.
- ONCE COMPACTED CRUSH STONE BASE, BORDER, AND EQUIPMENT ARE IN PLACE, THEY SHOULD NOT BE DRIVEN OR WALKED ON AND SHOULD NOT BE USED FOR STORAGE AREA.
- PLAYGROUND INSTALLATION DESCRIBED ABOVE SHOULD TAKE APPROXIMATELY ONE TO FIVE DAYS, DEPENDING ON SITE CONDITIONS, WEATHER, INSTALLER CREW SIZE, ETC.
- INSTALLATION OF FOUR-IN-PLACE SURFACING USUALLY TAKES PLACE ONE TO TWO WEEKS AFTER PLAYGROUND IS INSTALLED, DEPENDING MAINLY ON WEATHER CONDITIONS.
- GENERALLY ONLY THREE OR FOUR PARKING SPACES ARE NEEDED FOR SURFACING INSTALLERS. (ONE OR TWO VEHICLES AND A MIXER STAGING AREA)
- TYPICALLY, TWO MEN MIX THE SURFACING PRODUCT IN THE PARKING LOT AND TRANSPORT BY WHEELBARROW TO PLAYGROUNDS WHERE IT IS POURED AND TROWELED. THEREFORE, NO SPECIAL ALLOWANCES ARE NECESSARY (FENCING CAN BE INSTALLED AND FINISH LANDSCAPING CAN BE COMPLETED)
- THIS IS USUALLY A TWO-DAY INSTALLATION, DEPENDING MAINLY ON WEATHER CONDITIONS. IMPACT COURSE APPLIED ON DAY ONE, AND TOPCOAT (COLOR) APPLIED ON DAY TWO.
- ONCE THE TOPCOAT APPLICATION IS COMPLETE, THE BINDING AGENTS WILL TAKE A MINIMUM 24 HOURS TO CURE. DURING THAT TIME THERE IS TO BE ABSOLUTELY NO WALKING ON PLACING OBJECTS ON, OR ALLOWING ANY DUST TO ACCUMULATE ON THE TOPCOAT SURFACE.
- FINISH GRADING AND LANDSCAPING MUST BE THE SAME ELEVATION AT THE PLAYGROUND BORDERS.
- ENSURE THAT THE SITE IS SECURE AND THAT OTHER CONTRACTORS WILL NOT BE STORING, WORKING, WALKING, ETC. ON FINISHED PLAYGROUNDS, SURFACES OR BORDERS.

GENERAL NOTES:
DEVELOPER/GENERAL CONTRACTOR SHOULD BE IN CONSTANT COMMUNICATION WITH GSI TO SCHEDULE DELIVERY AND INSTALLATION OF THE PLAYGROUND STRUCTURES. PLAYGROUND INSTALLERS TRAVEL LONG DISTANCES AND IT IS IMPERATIVE THE SITE IS PROPERLY PREPARED AS SPECIFIED TO AVOID COSTLY MOBILIZATION, SHIPPING AND STORAGE FEES.

GS1'S PLAYGROUND INSTALLERS TRAVEL GREAT DISTANCES, INCURRING EXPENSES FOR BOTH TRANSPORTATION AND LODGING. IN ADDITION THEY ARE REQUIRED TO RESERVE TRAVEL MACHINERY. IF THEY ARE TURNED AWAY BECAUSE THE SITE IS NOT READY, A TRAVEL CHARGE WILL APPLY. THIS CHARGE COULD BE SIGNIFICANT (\$50.00 PER MAN-HOUR FOR A CREW OF FIVE, LODGING AT \$175 PER ROOM PER NIGHT, AND EQUIPMENT RENTAL DEPOSITS). THEREFORE, FOLLOWING ALL OF THE ABOVE GUIDELINES, ESPECIALLY WITH RESPECT TO THE SCHEDULING OF THE PROJECT, WILL BE CRUCIAL TO THE SUCCESS OF LARGE ROCKS, CEMENT, ETC. IN BACKFILL MATERIALS, AND "PROVIDING THE PROJECT MANAGER AN ACCURATE TIMELINE, WILL SAVE BOTH MONEY AND TIME.



04 POUR-IN-PLACE PLAY SURFACING

SCALE: 1 1/2" = 1'-0"

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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(586) 216-1043
www.storeyengineering.com

THE GODDARD SCHOOL OF BEVERLY HILLS
 935 E SILVERBELL ROAD
 LAKE ORION, MI 48360

PLAYGROUND DETAILS - 1

THE GODDARD SCHOOL - BEVERLY HILLS
 31655 SOUTHFIELD ROAD
 TTN. R10E, SE 1/4, SECTION 2, VILLAGE OF BEVERLY HILLS, OKLAND COUNTY, MI

| DES. | TSS | DN. | TSS | SUR. | TSS | P.M. | TSS |
|-----------|-----|-----|-----|------|-----|------|-----|
| 10/1/2017 | 366 | 473 | 34 | 0 | 400 | 300 | 365 |
| 10/1/2017 | 366 | 473 | 34 | 0 | 400 | 300 | 365 |

ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

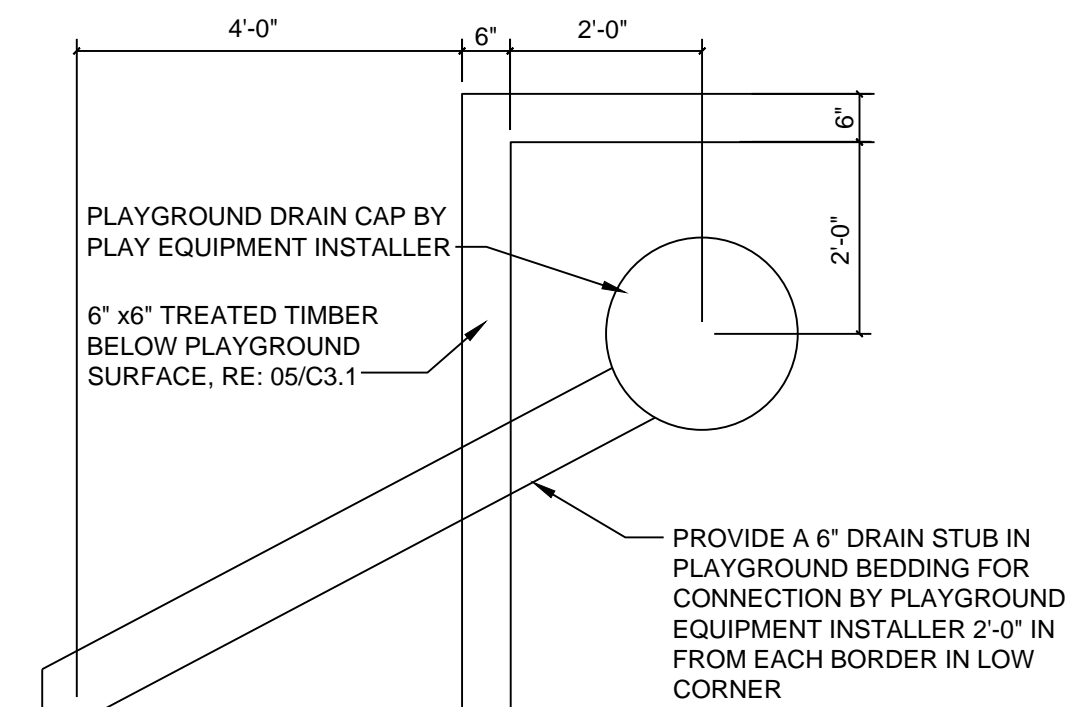
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DRAWING NUMBER:

GSI-1.0

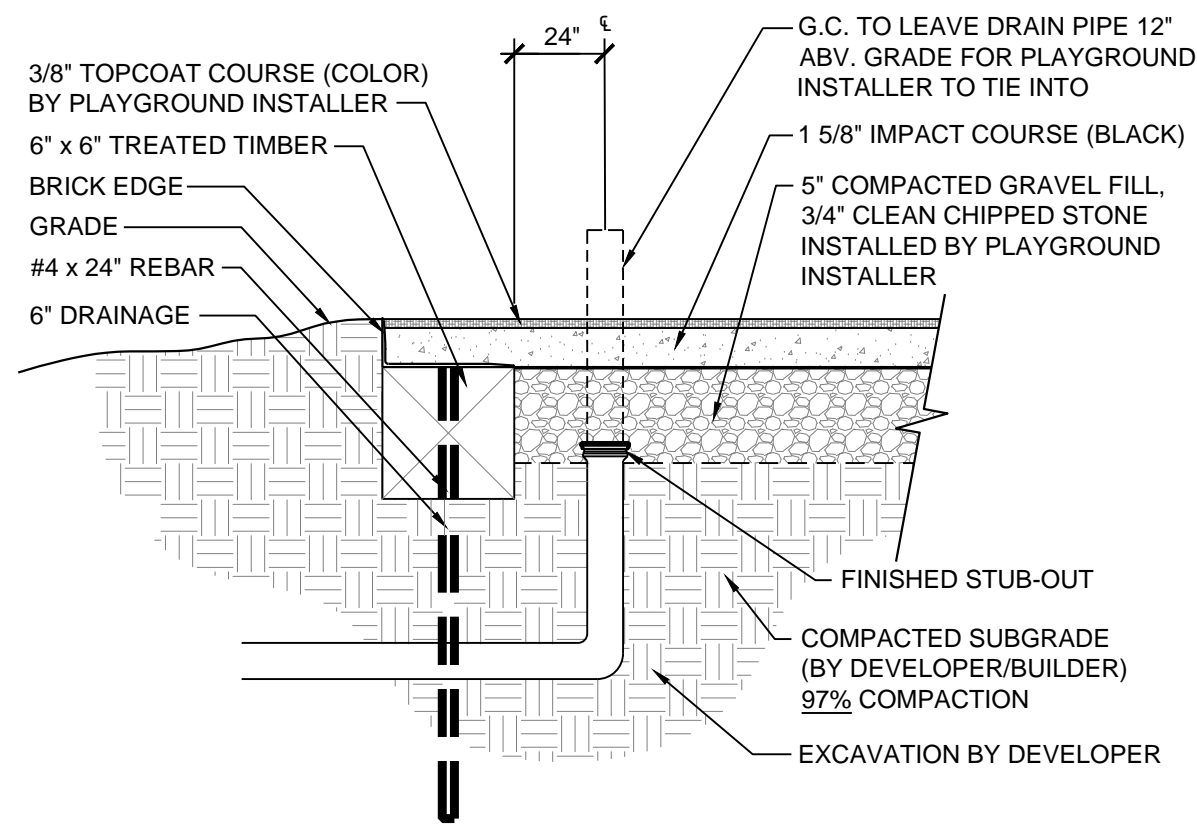
UTILITY NOTES

1. THERE SHALL BE NO UTILITIES RUN UNDER PLAYGROUND AREAS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ORDER ALL NEW SERVICES, LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED. NOTIFICATION SHALL BE GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
5. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
6. CONTRACTOR TO PROVIDE SURFACE MOUNT EXTERIOR GRADE PHONE CABINET AND PHONE. 48" MIN. TO 60" MAX. AFF. TO PROTRUDE 4" MAX. FROM FACE OF WALL. SEE HOFFMAN ATC12124S TYPE 1 STEEL CABINET. PAINT TO MATCH ADJACENT WALL COLOR.
7. CONTRACTOR TO COORDINATE INTERNET SERVICE AND COAX INSTALL AND LOCATIONS WITH OWNER AND GSI REPRESENTATIVE.



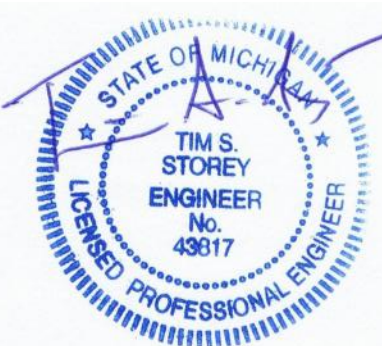
09 PLAYGROUND DRAINAGE DETAIL

SCALE: 1/2" = 1'-0"



05 PLAYGROUND DRAINAGE DETAIL

SCALE: 1-1/2" = 1'-0"



CAUTION!!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

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| | | | | | | | | |
|--|-----|------------------------|-----|------------------------------------|-----|--|-----|-----|
| THE GODDARD SCHOOL OF BEVERLY HILLS 935 E SILVERBELL ROAD LAKE ORION, MI 48060 | | PLAYGROUND DETAILS - 2 | | THE GODDARD SCHOOL - BEVERLY HILLS | | TIN RIVE, SE 1/4 SECTION 2, VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MI | | TSS |
| DES. | TSS | DN. | TSS | SUR. | TSS | P.M. | TSS | |

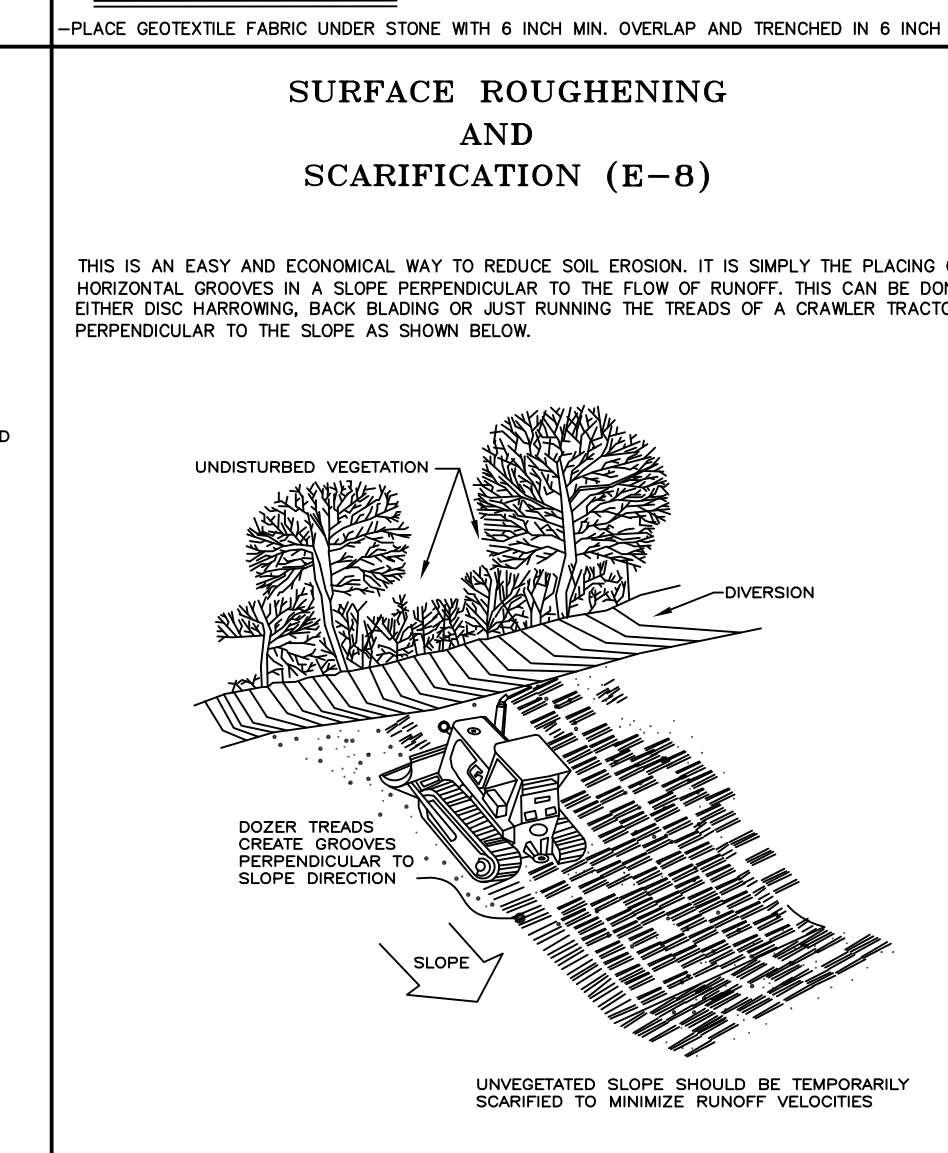
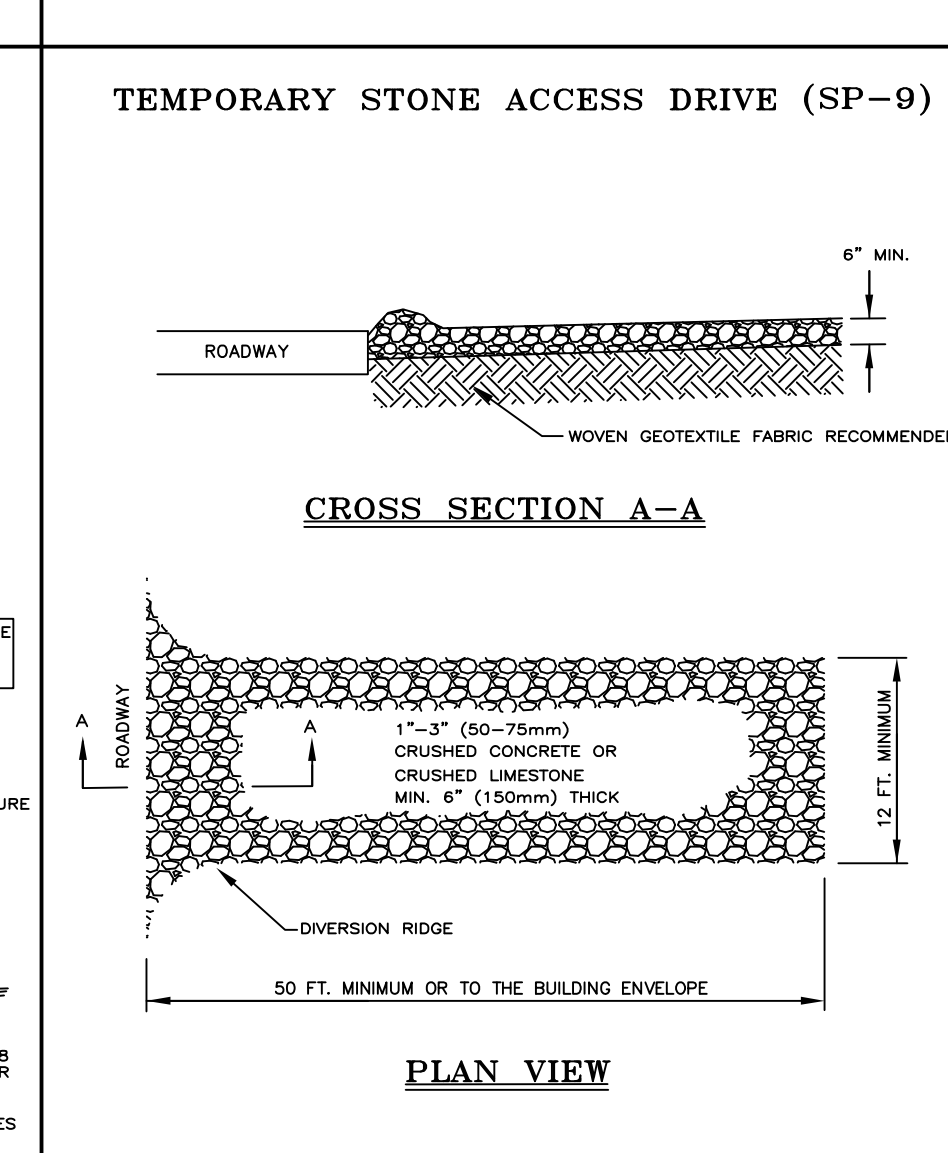
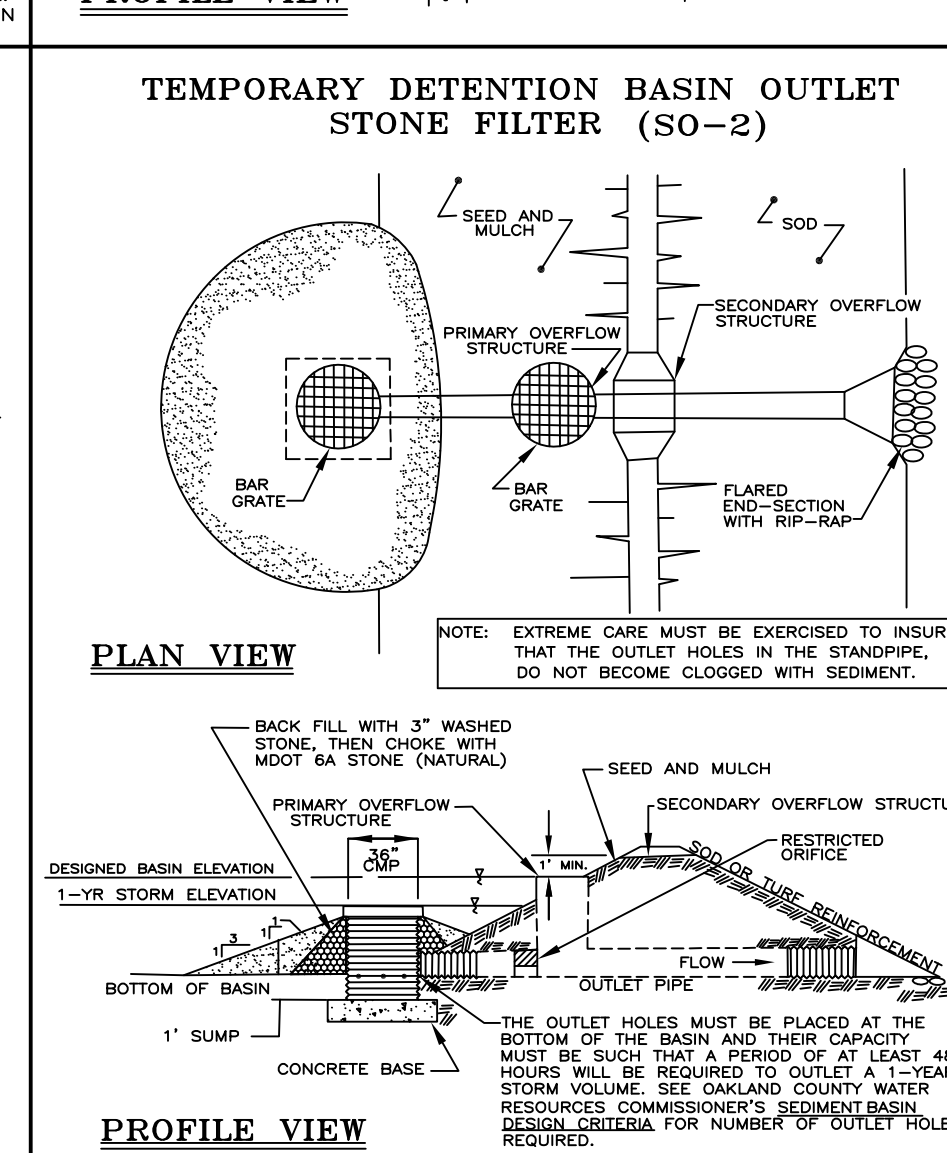
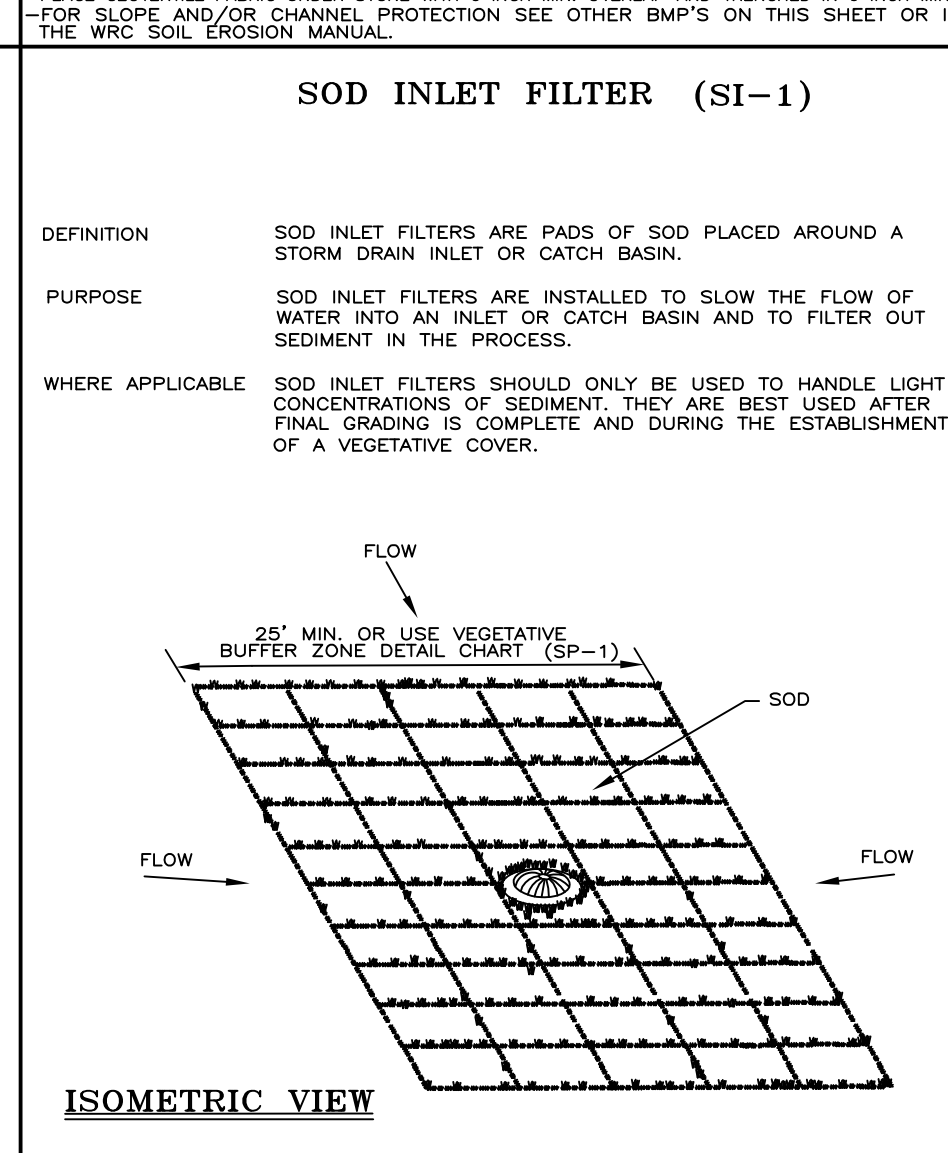
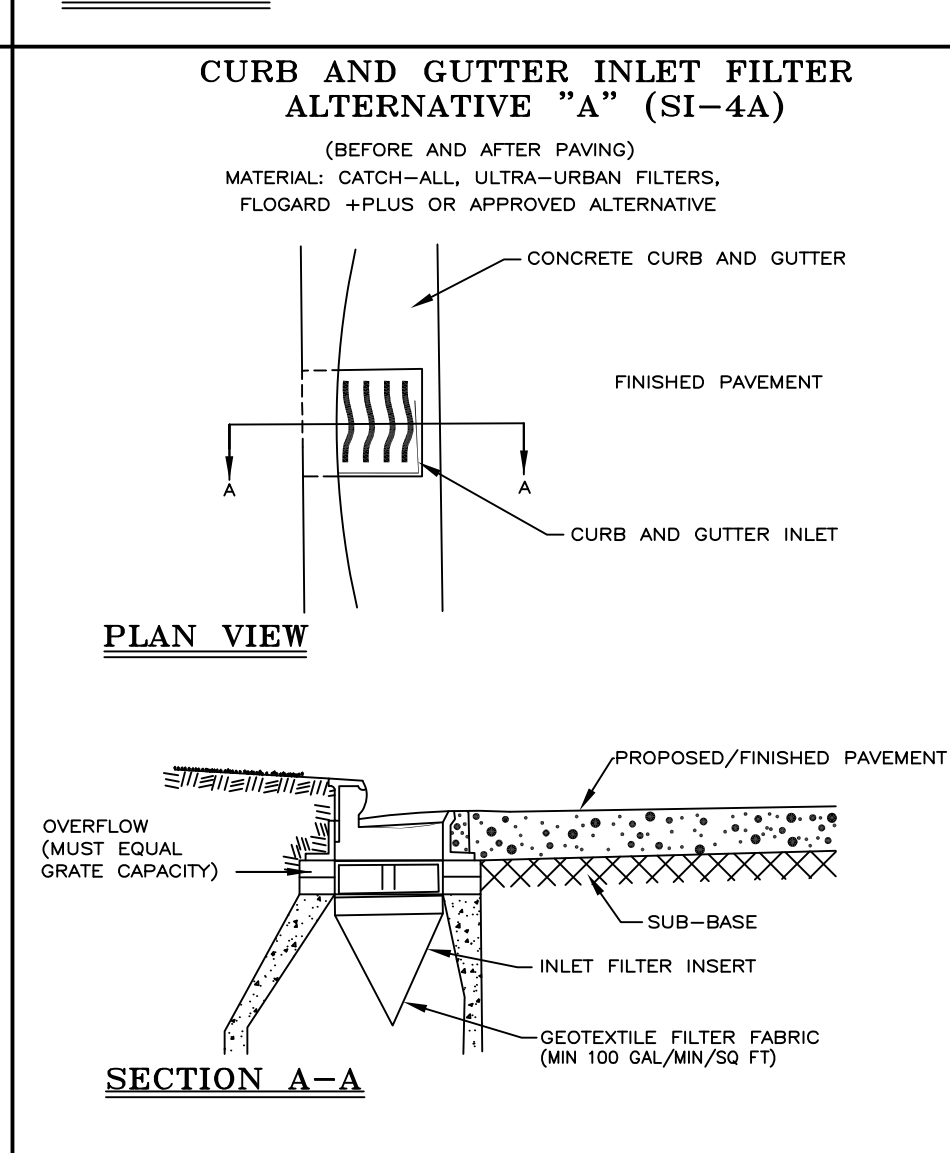
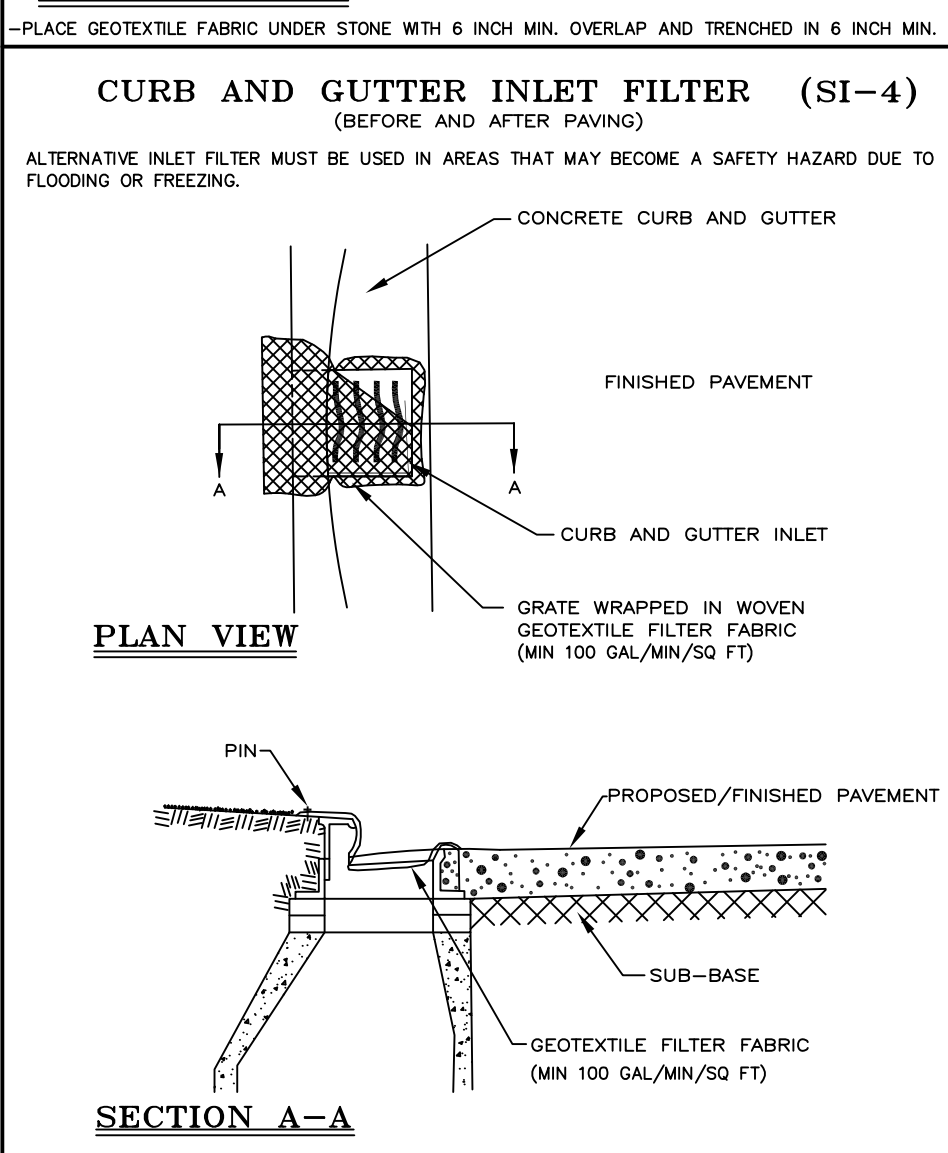
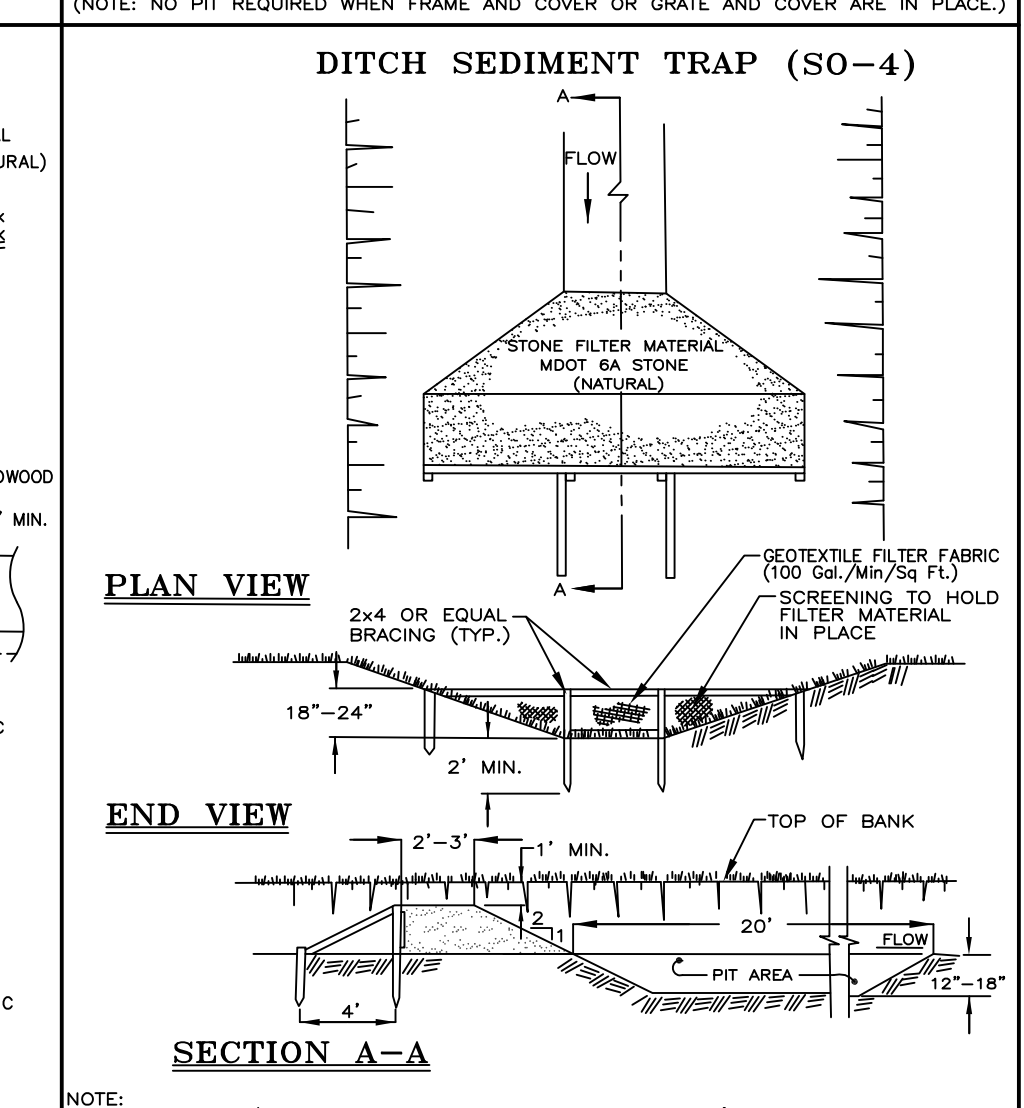
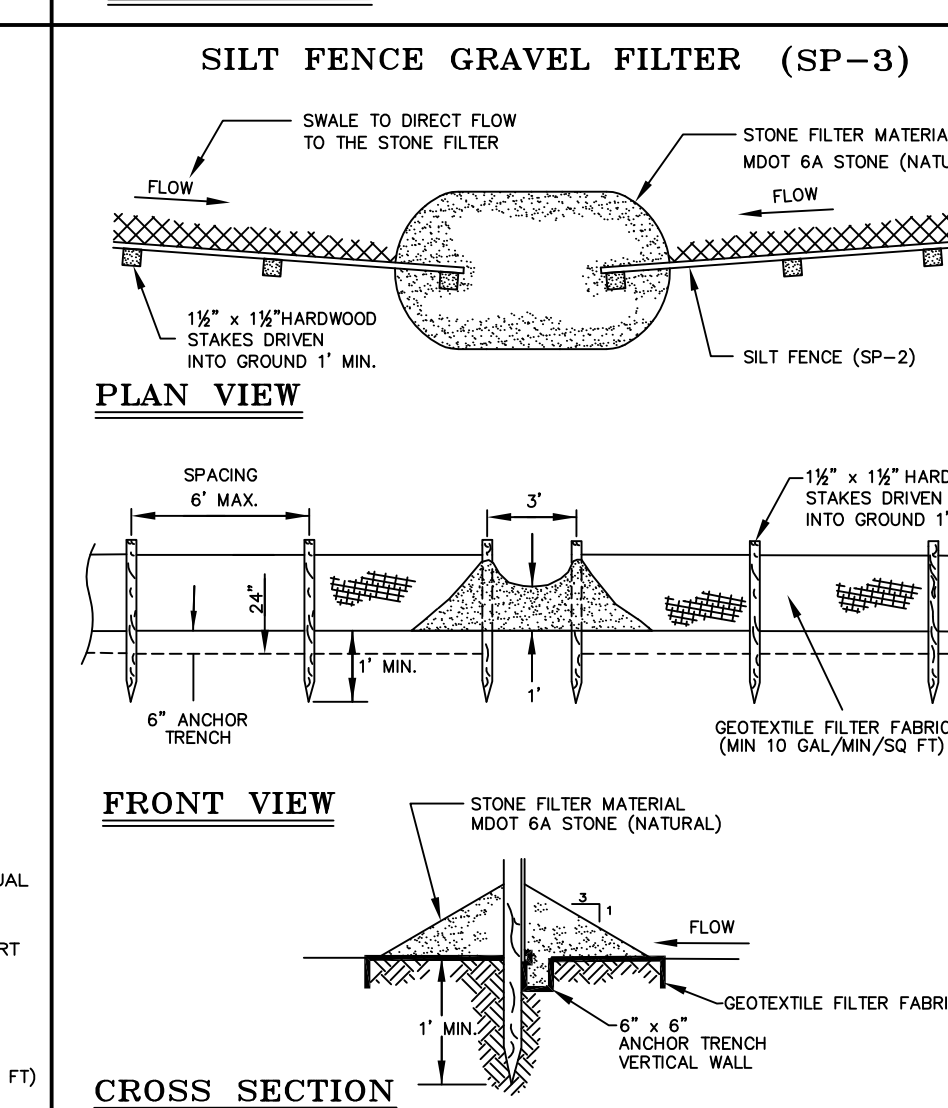
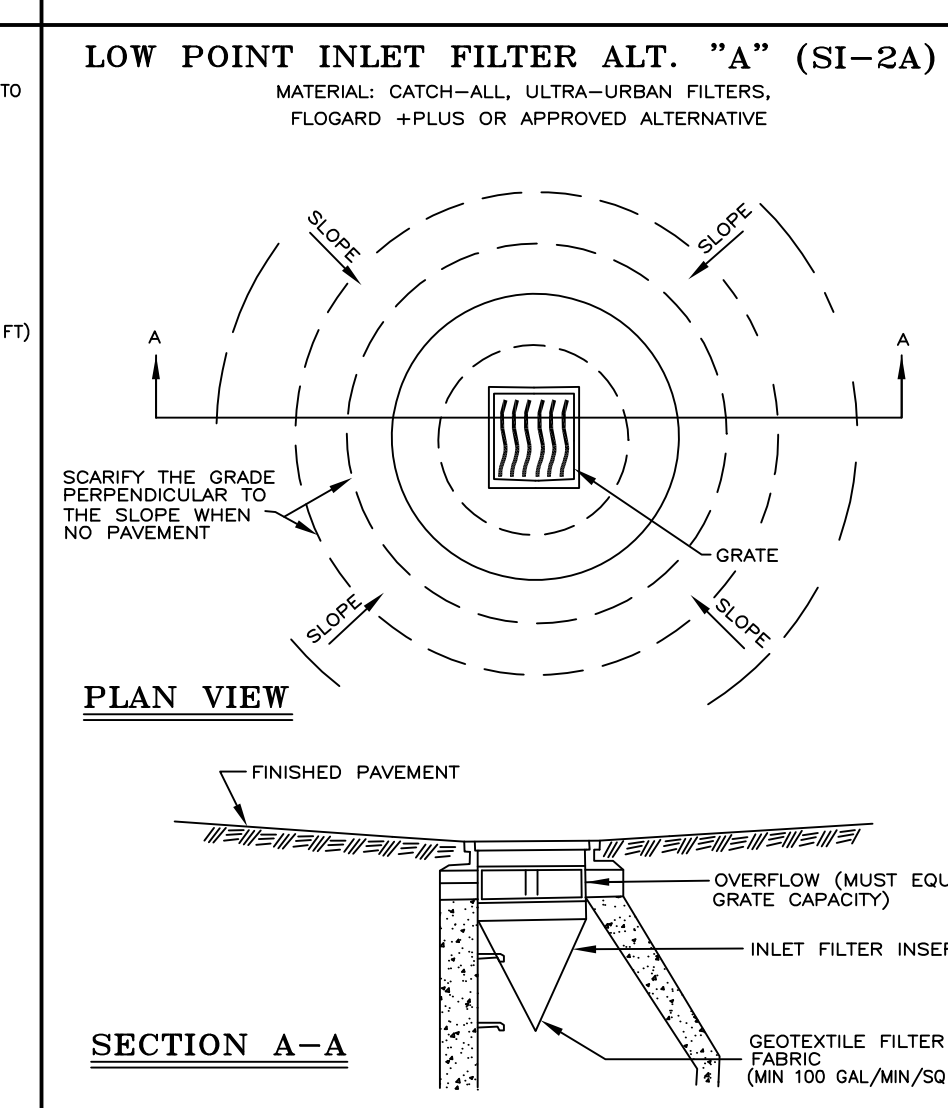
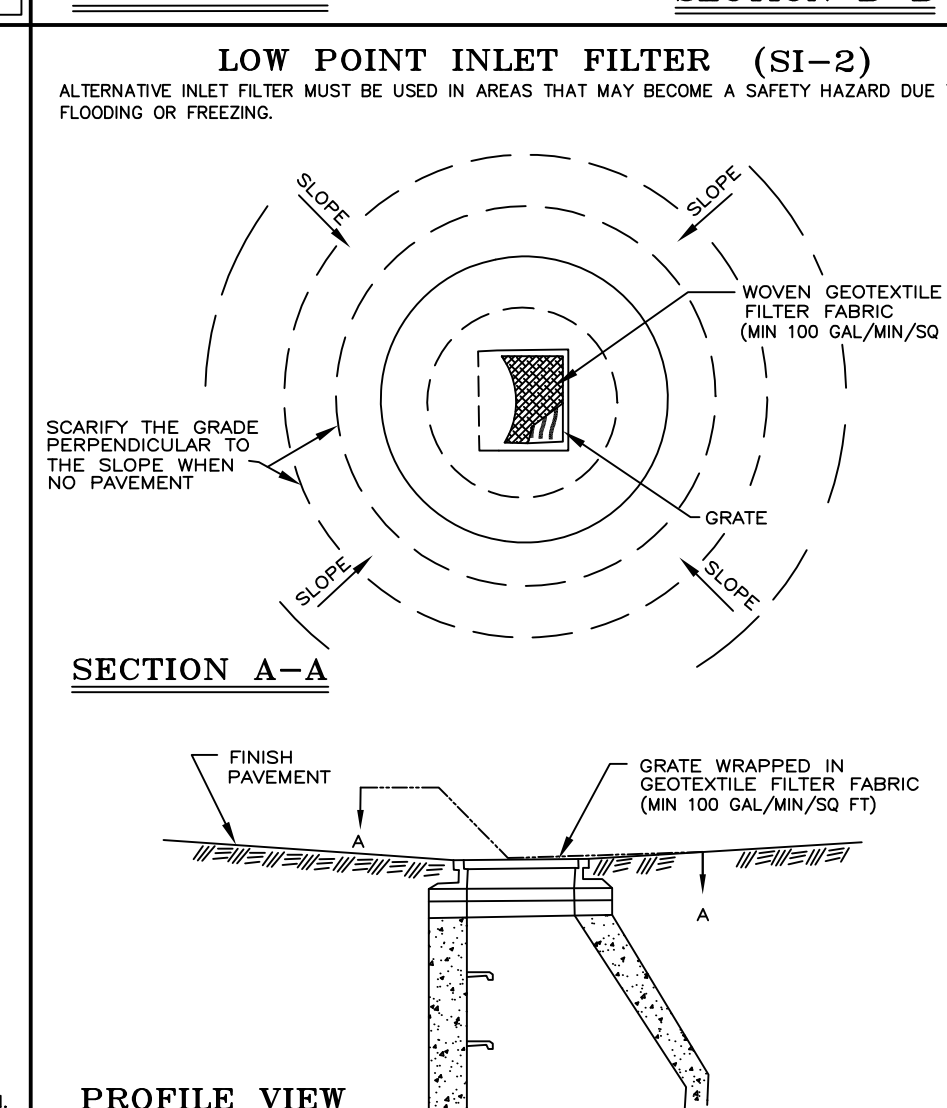
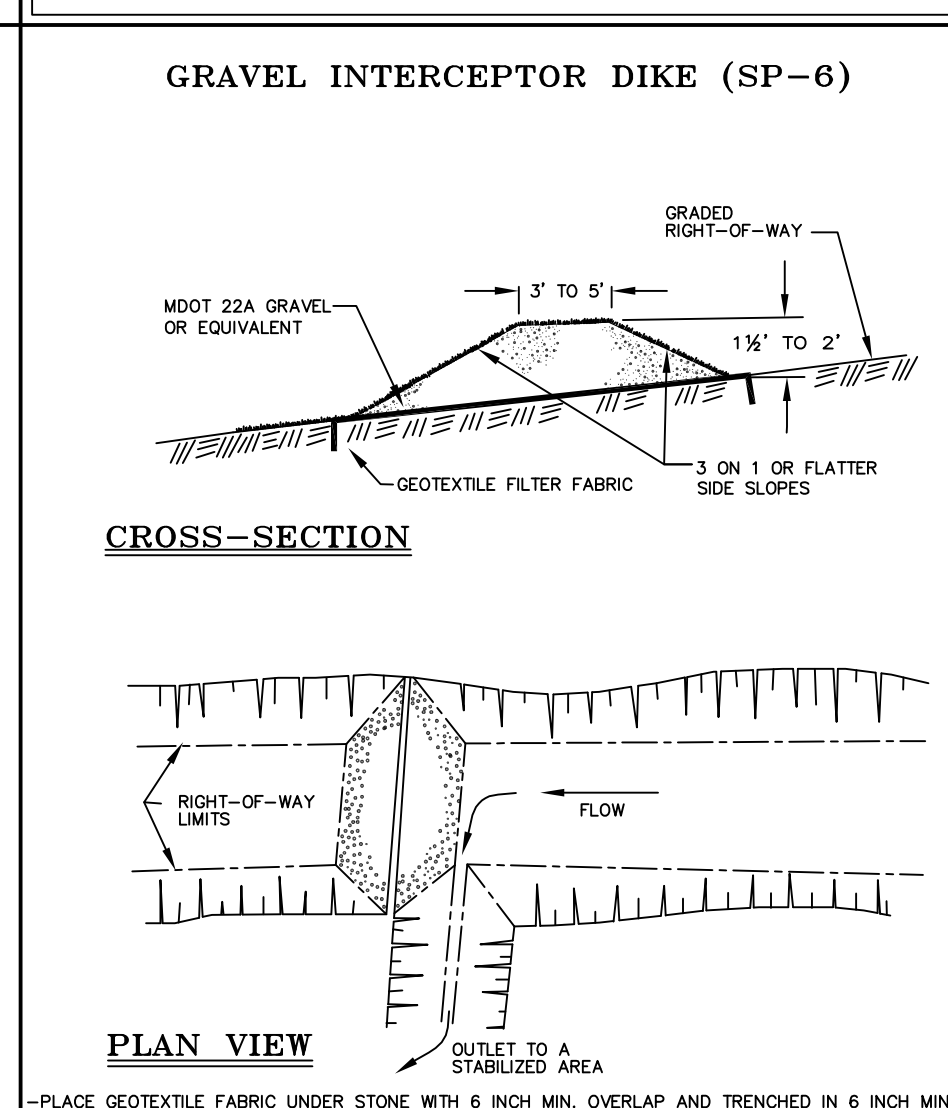
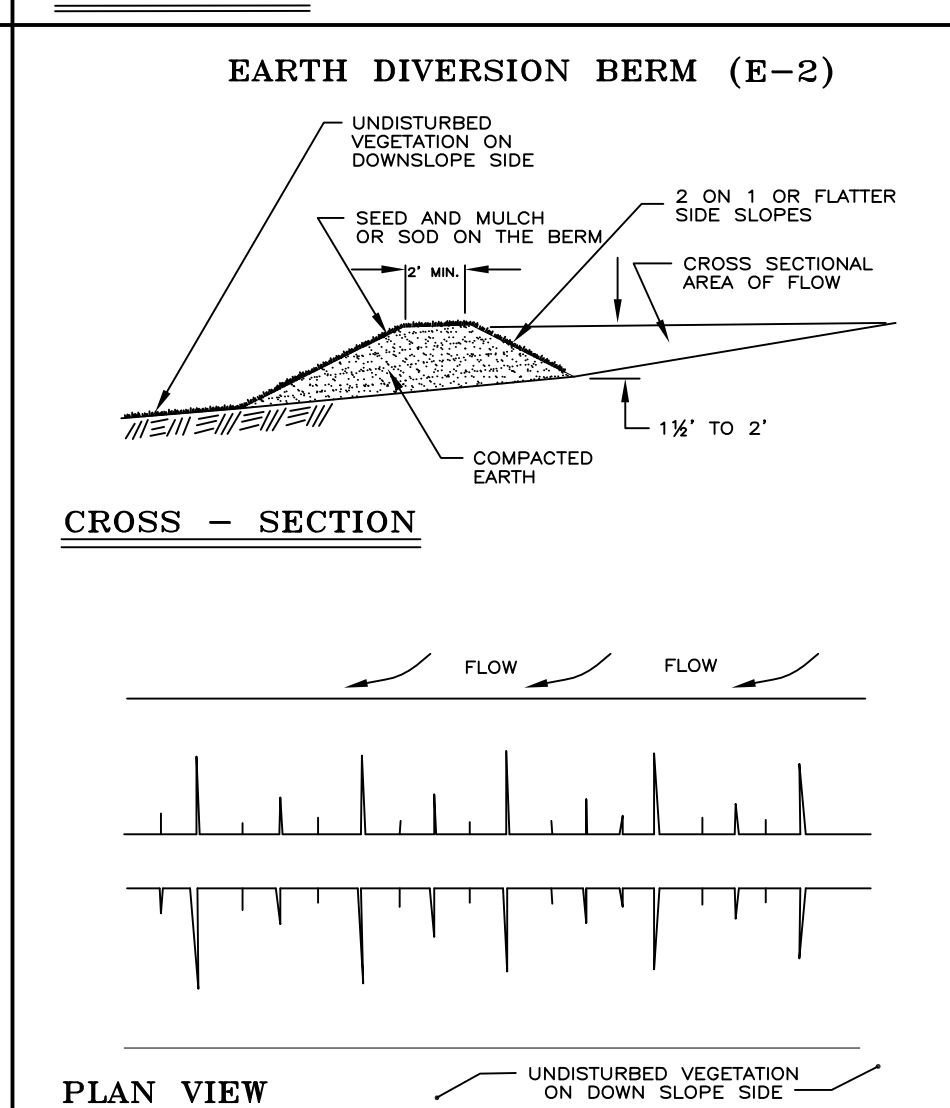
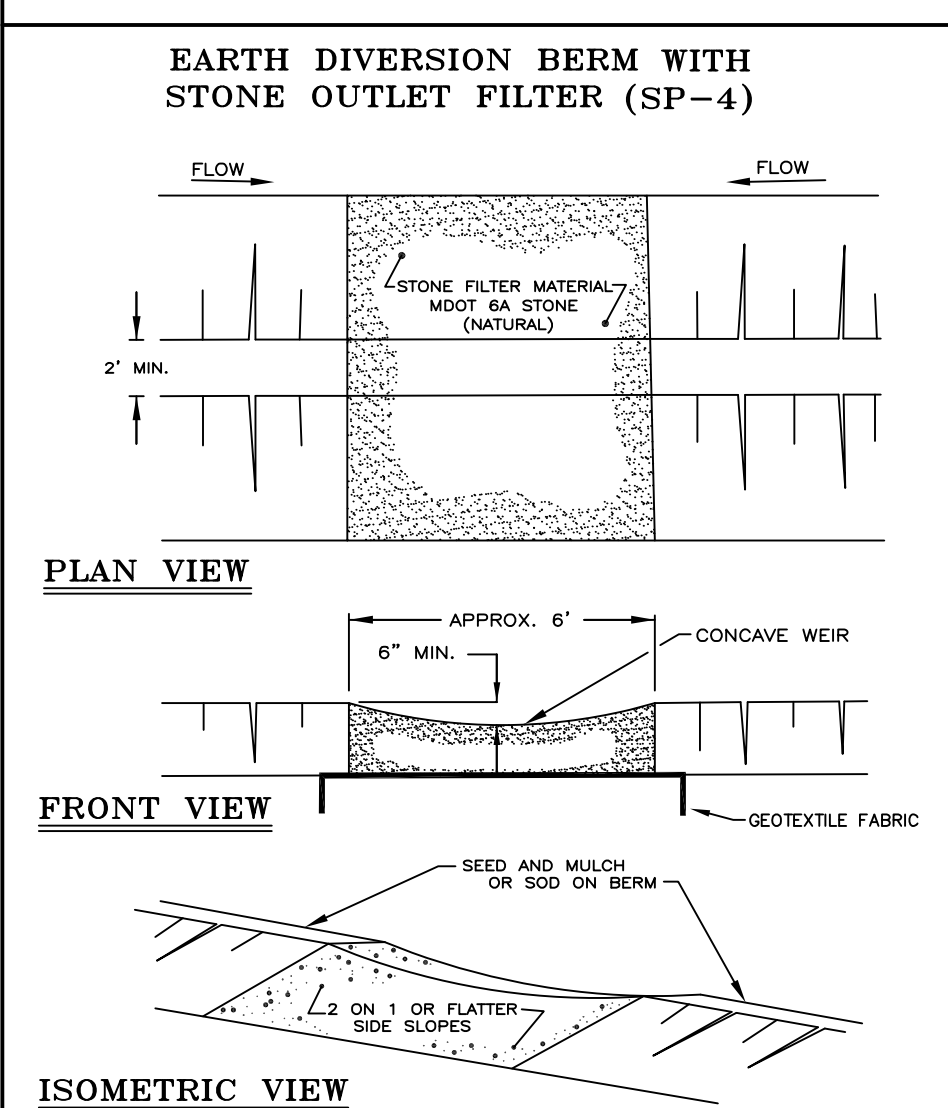
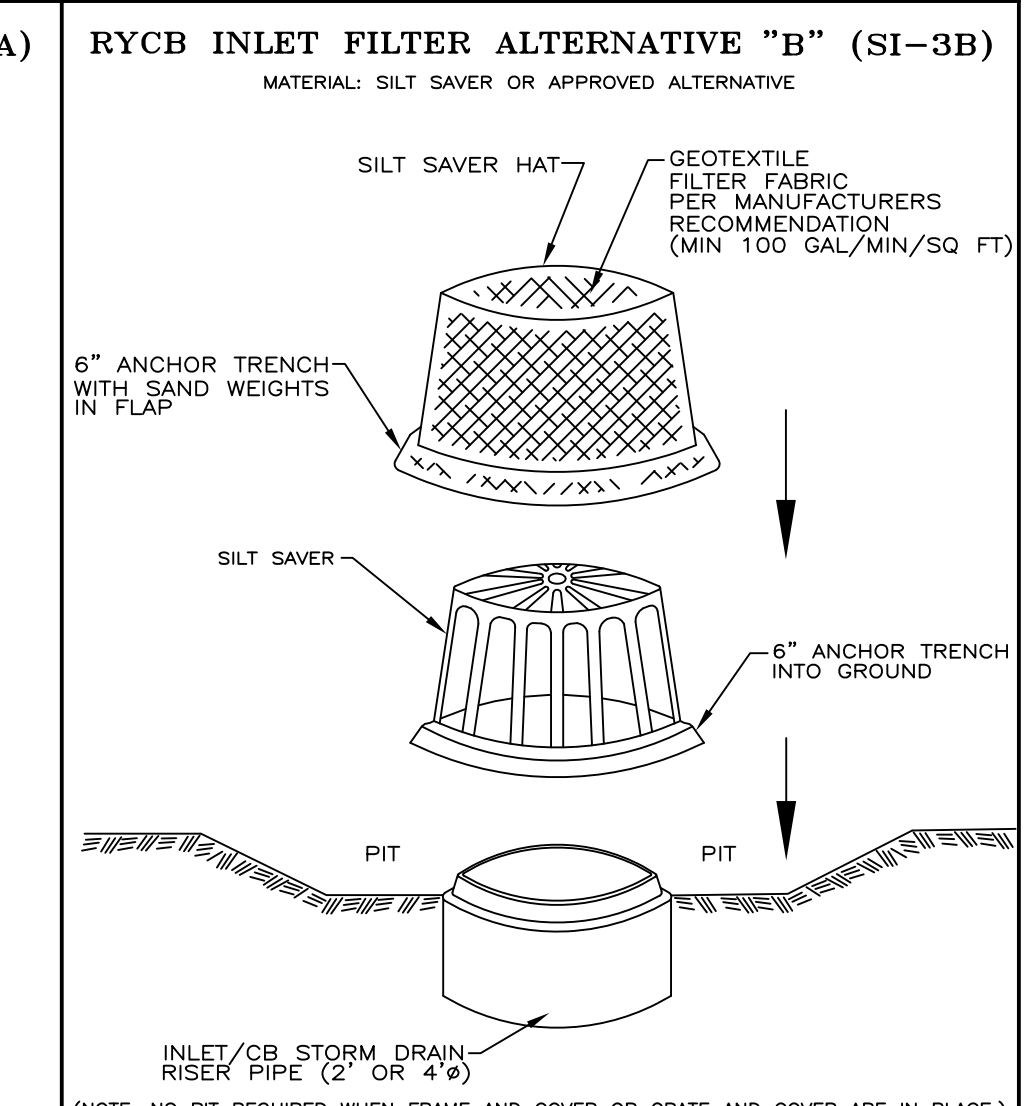
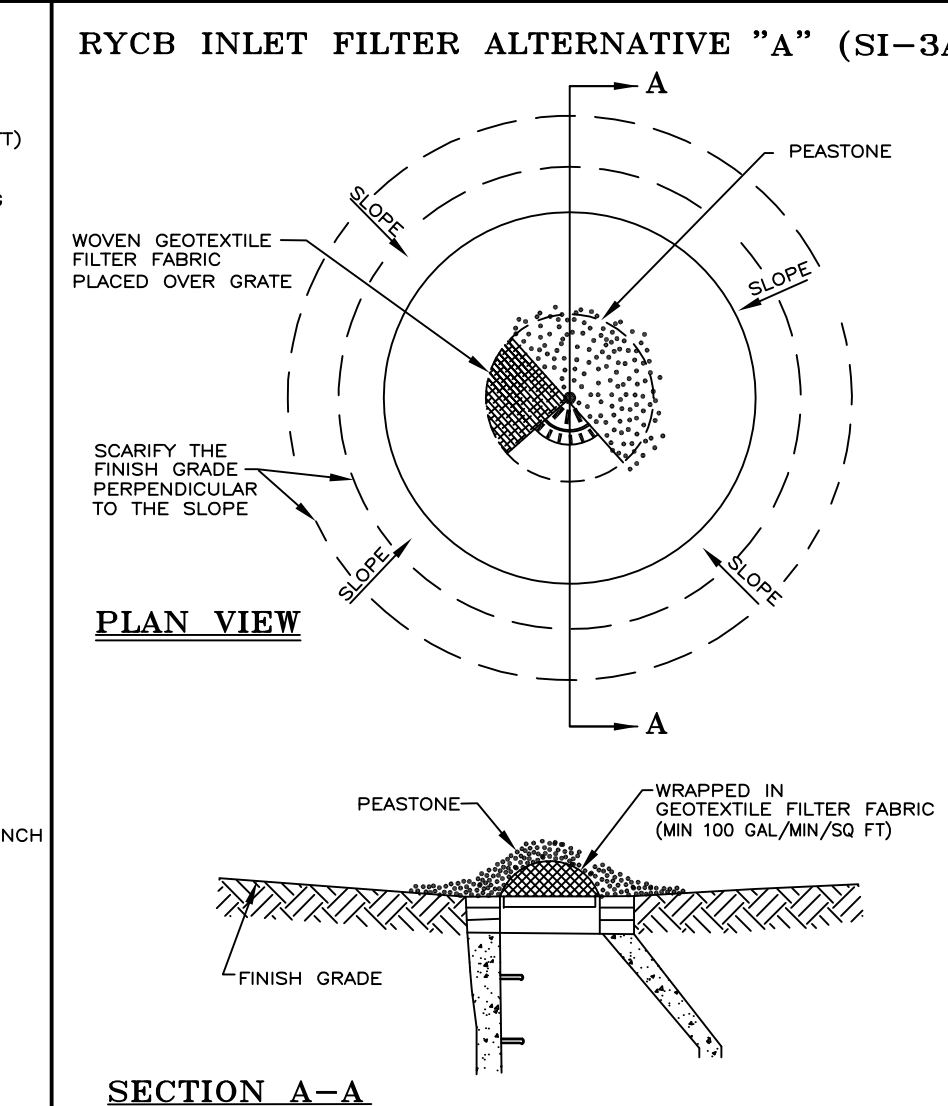
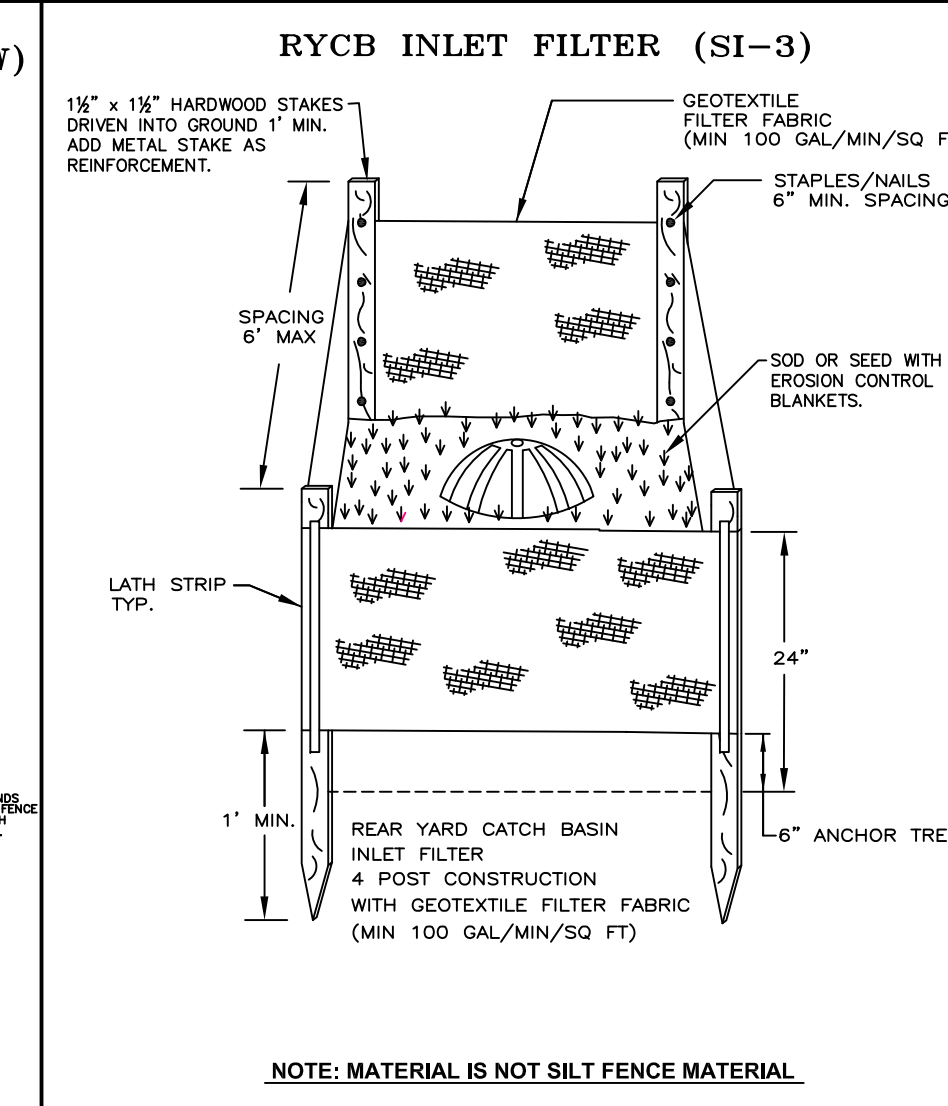
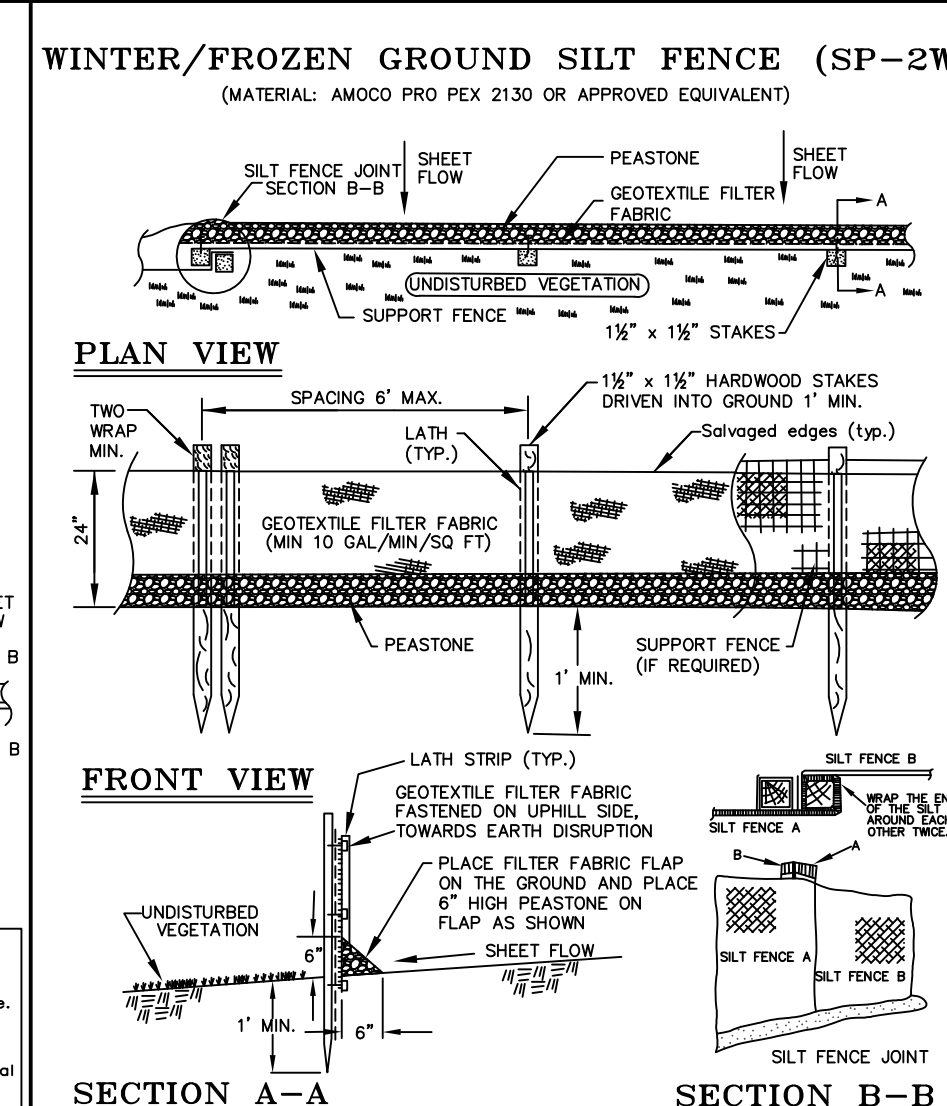
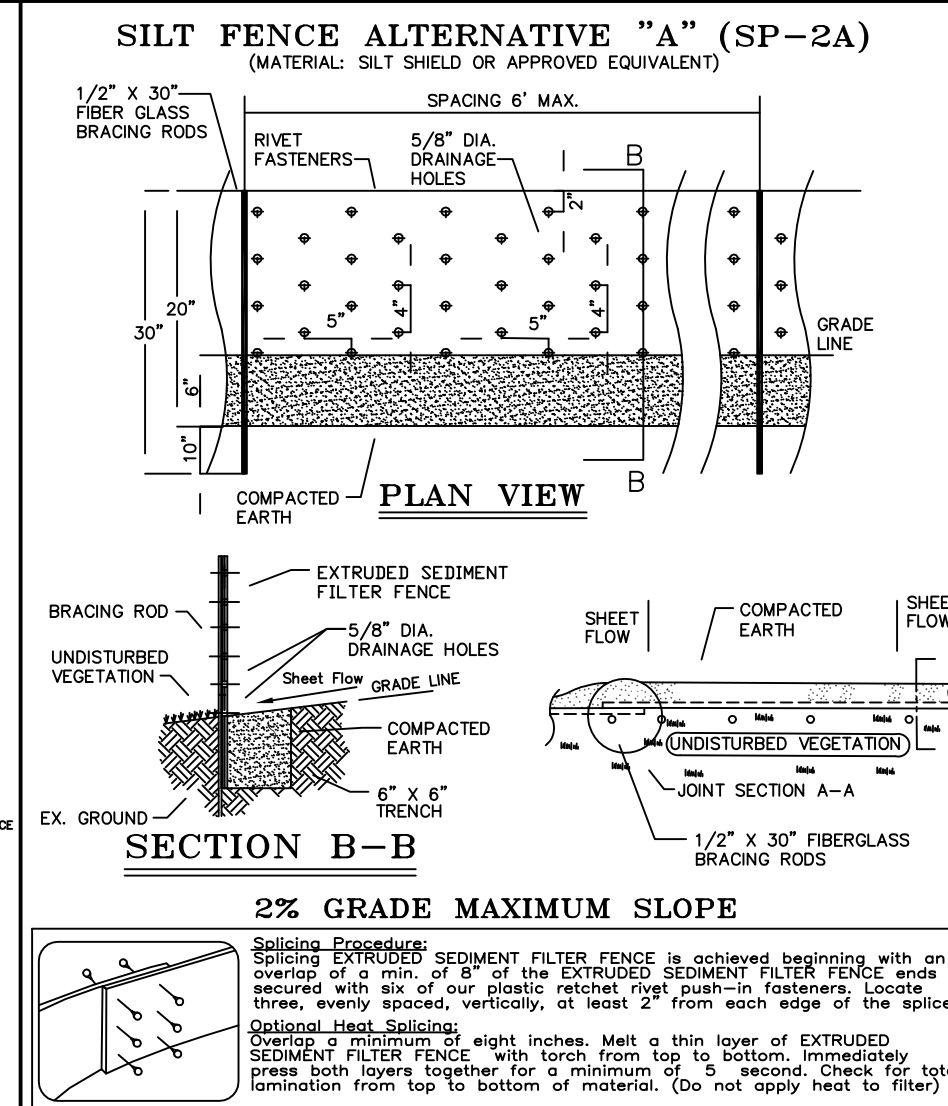
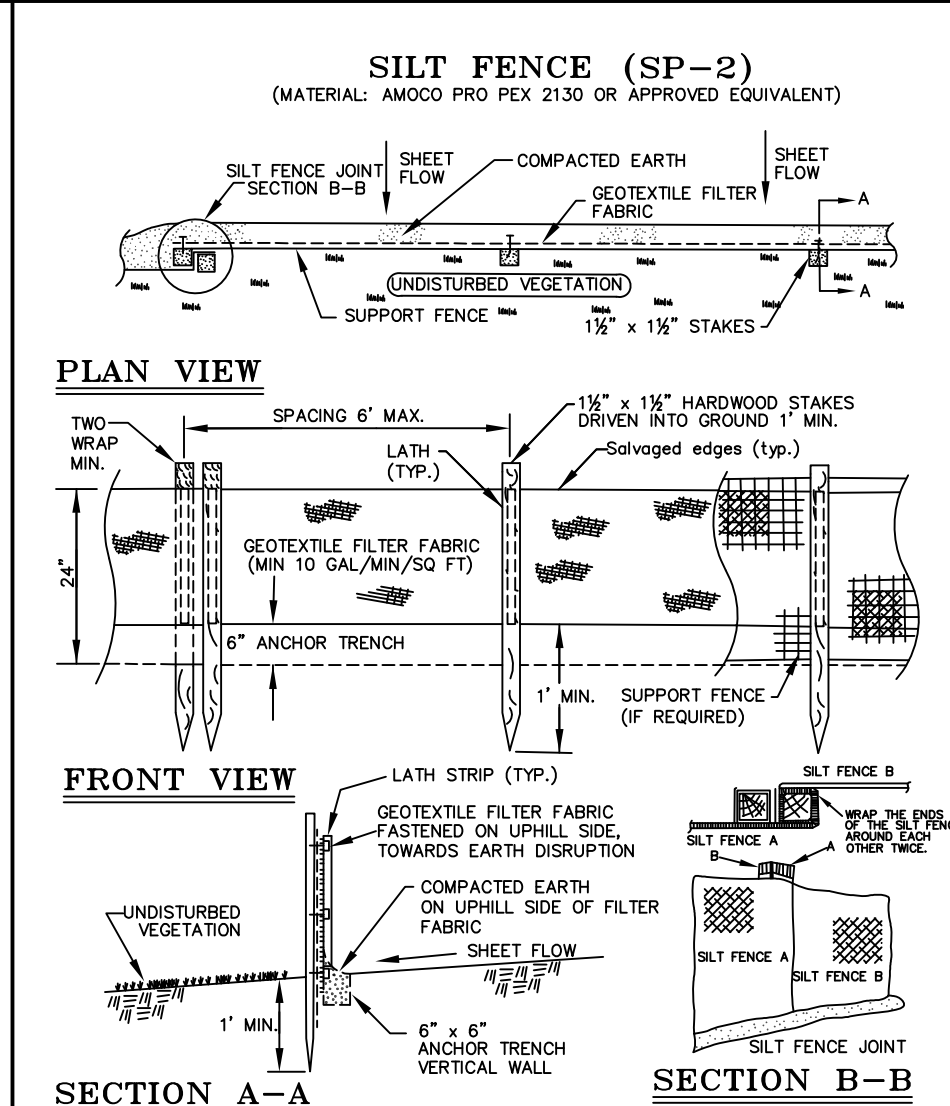
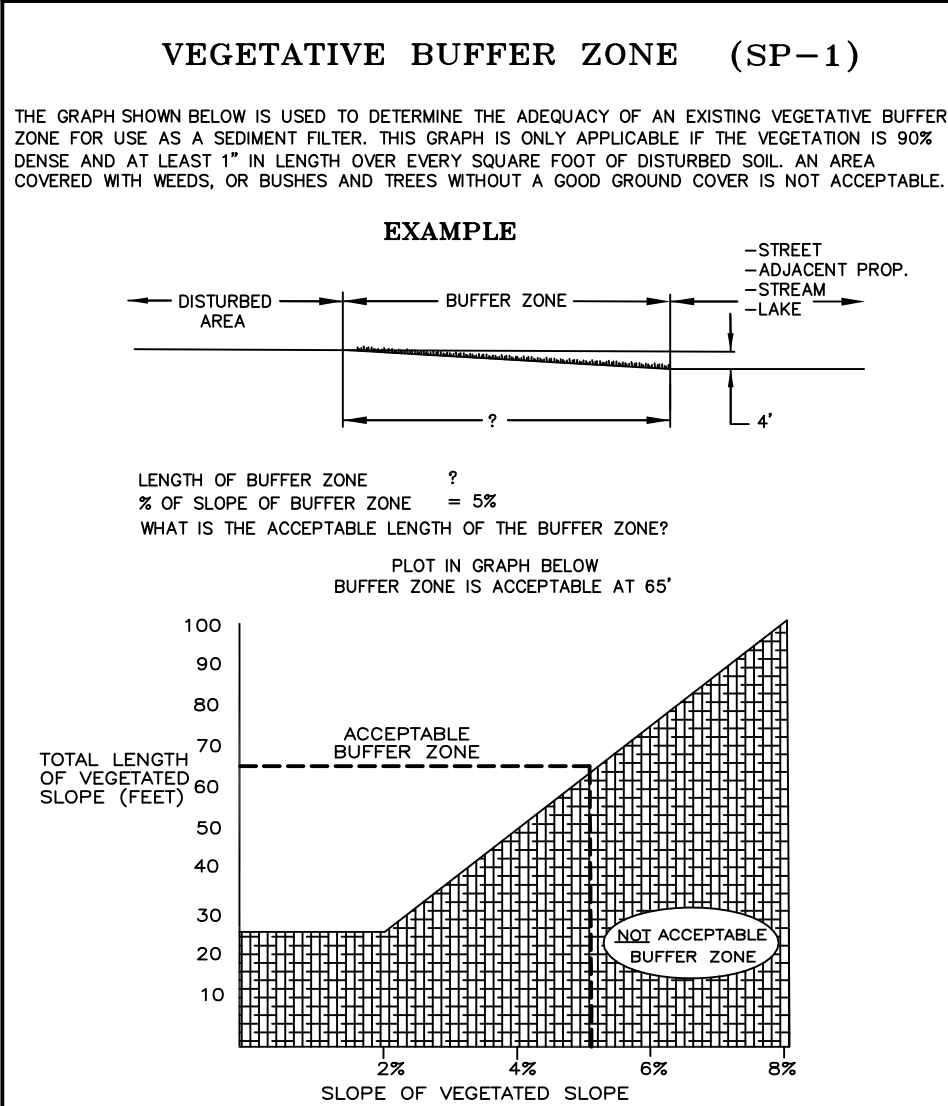
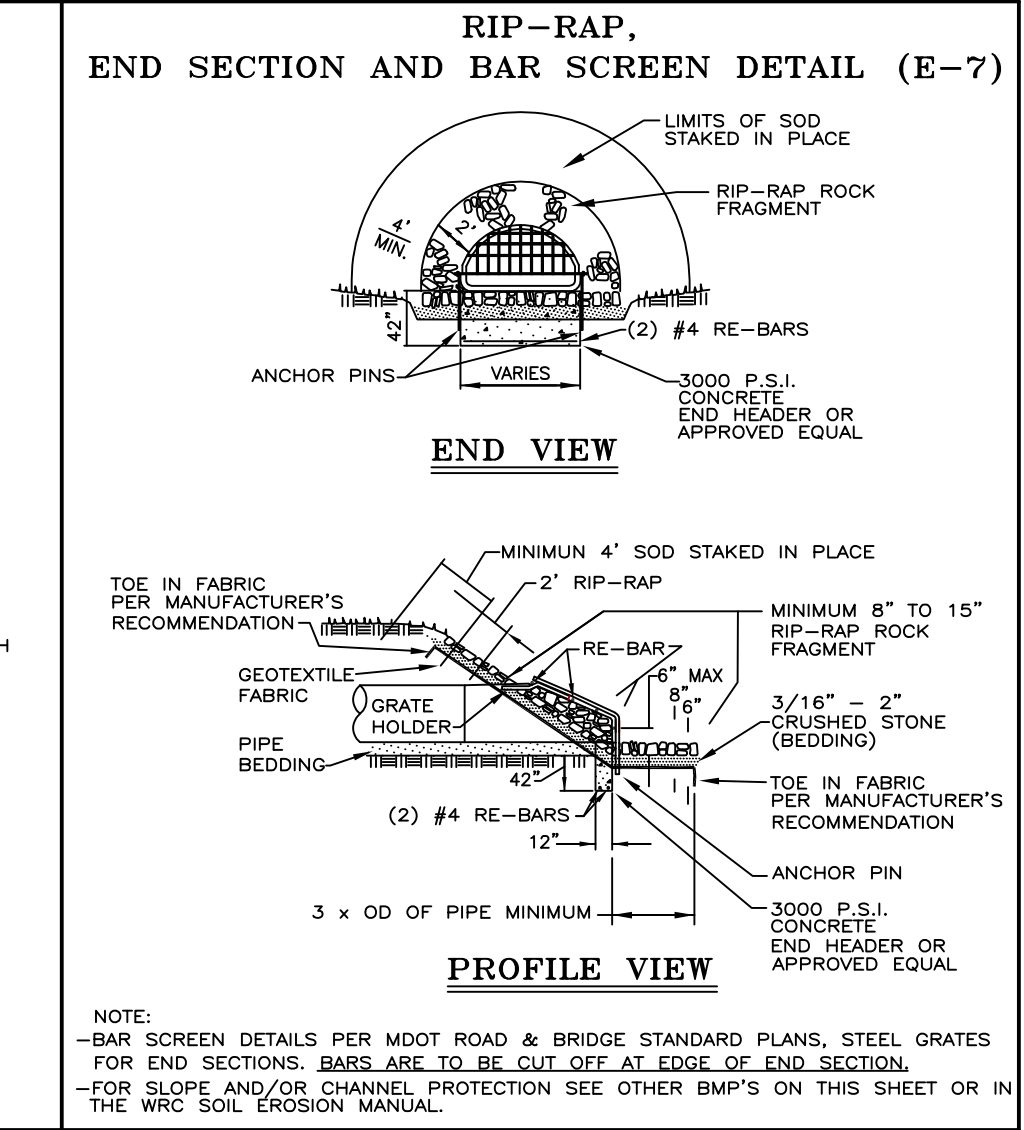
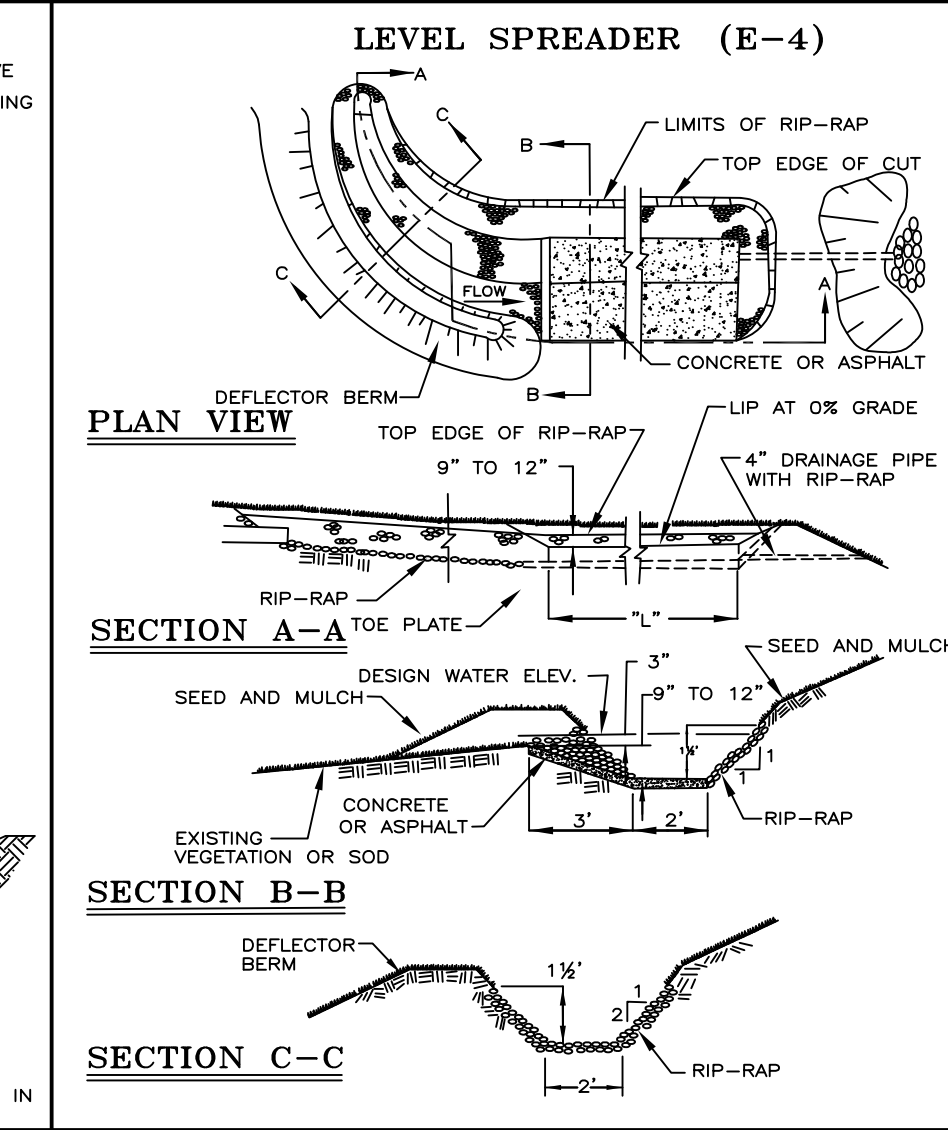
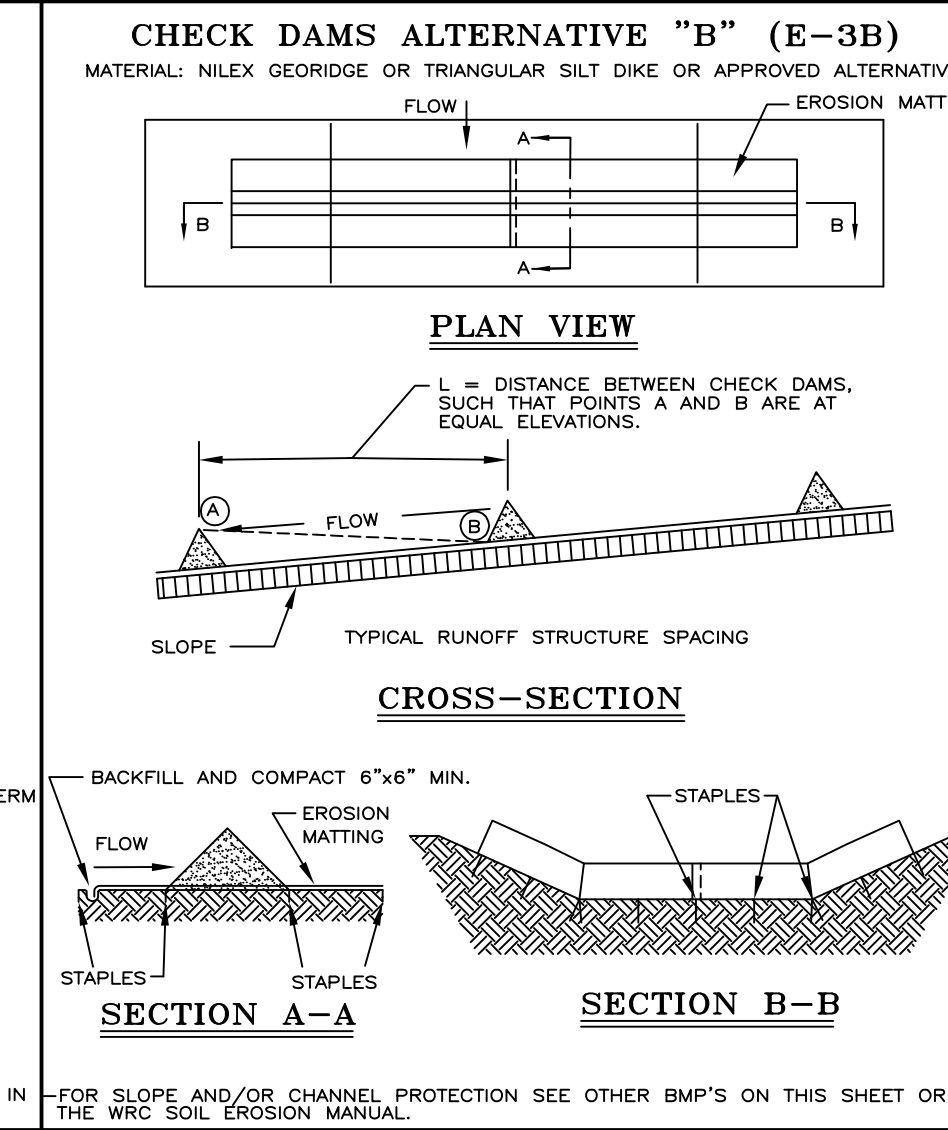
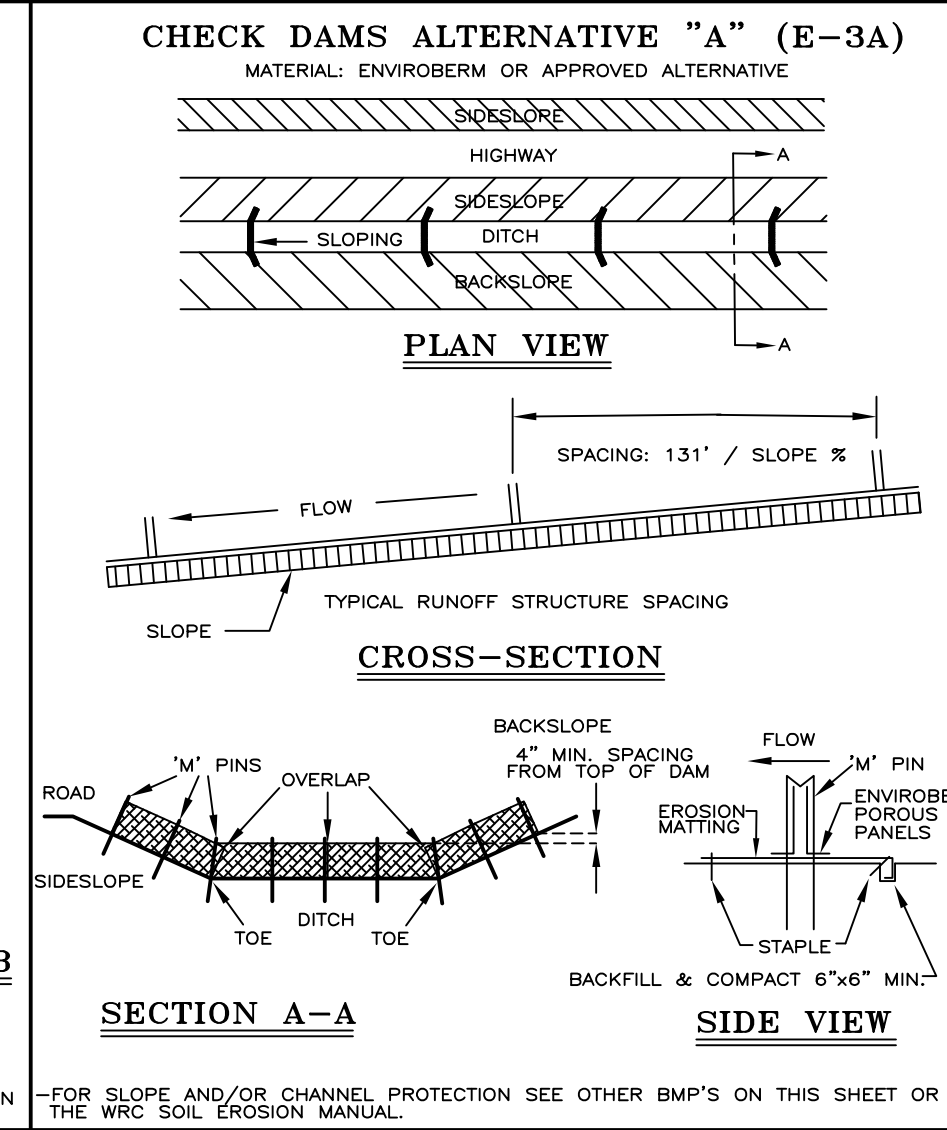
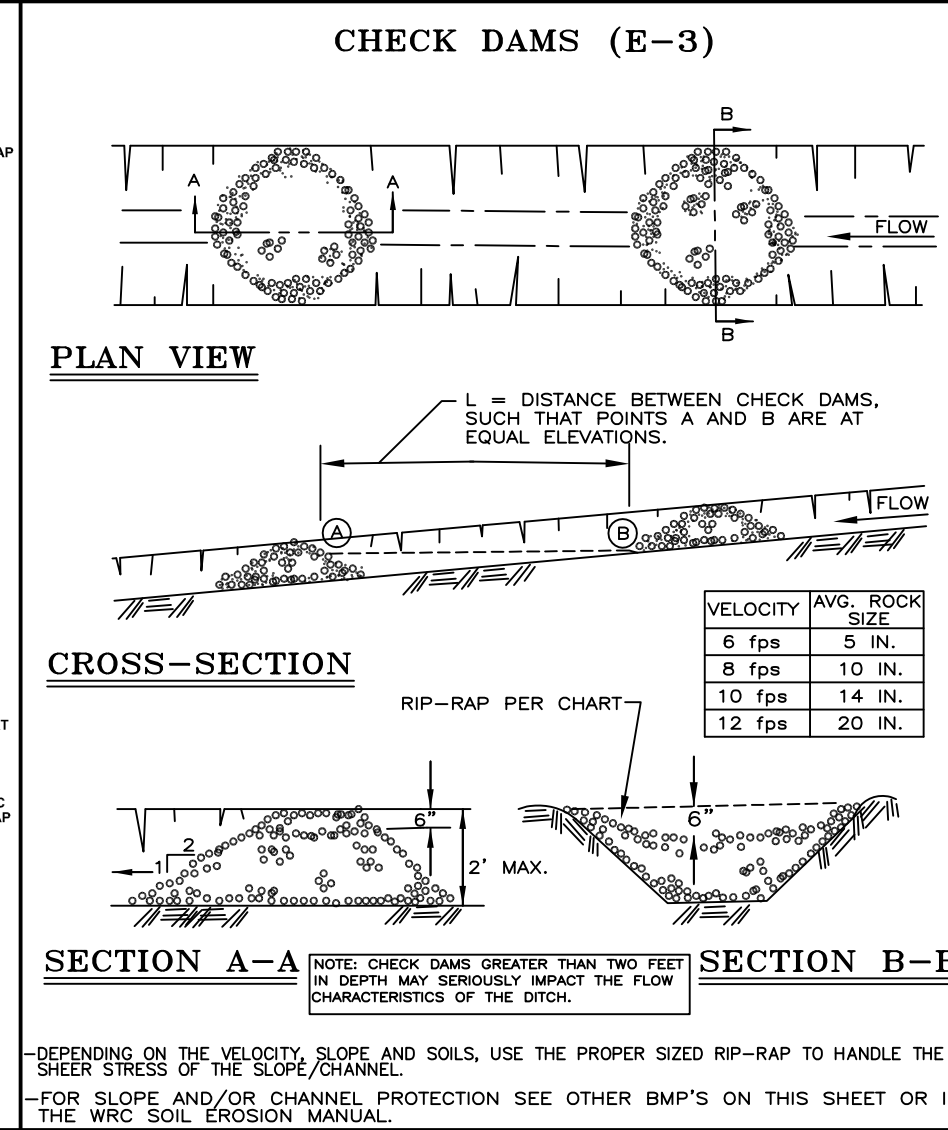
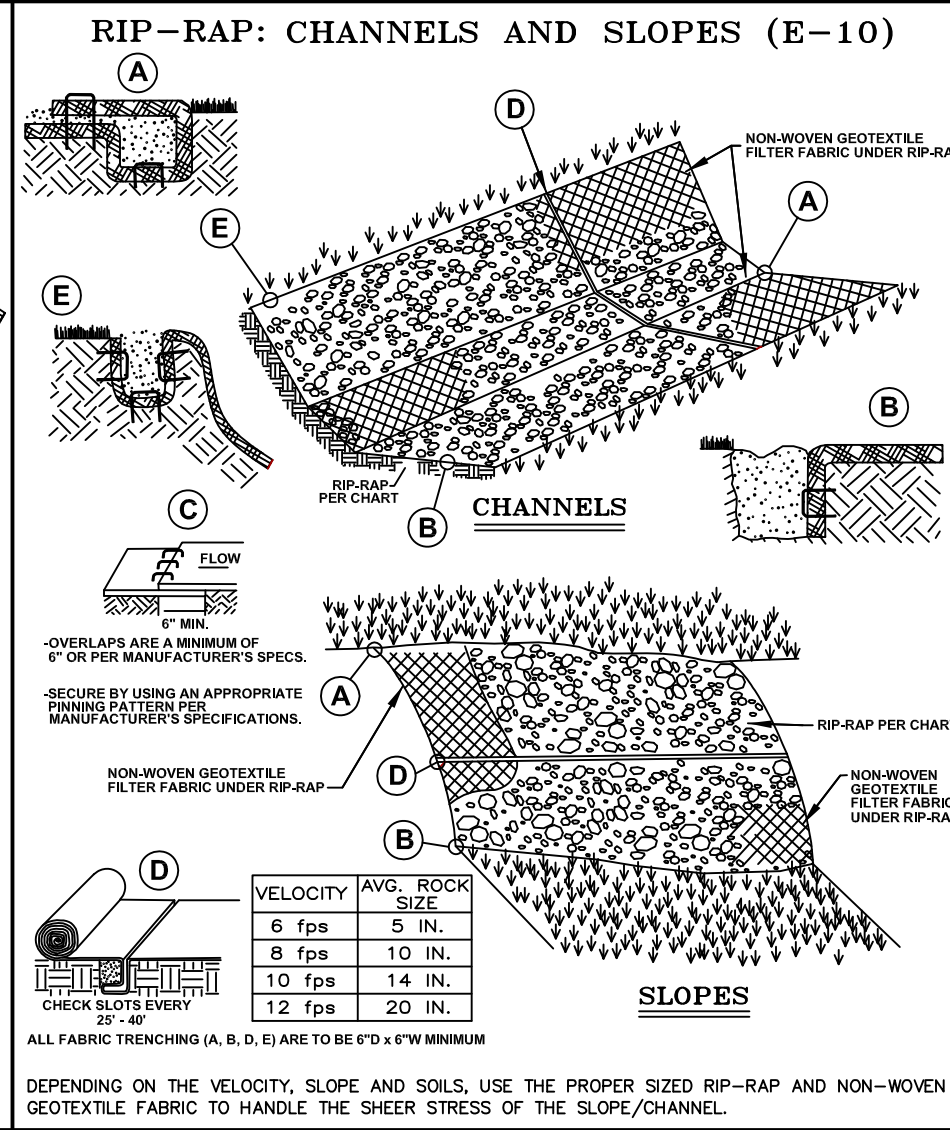
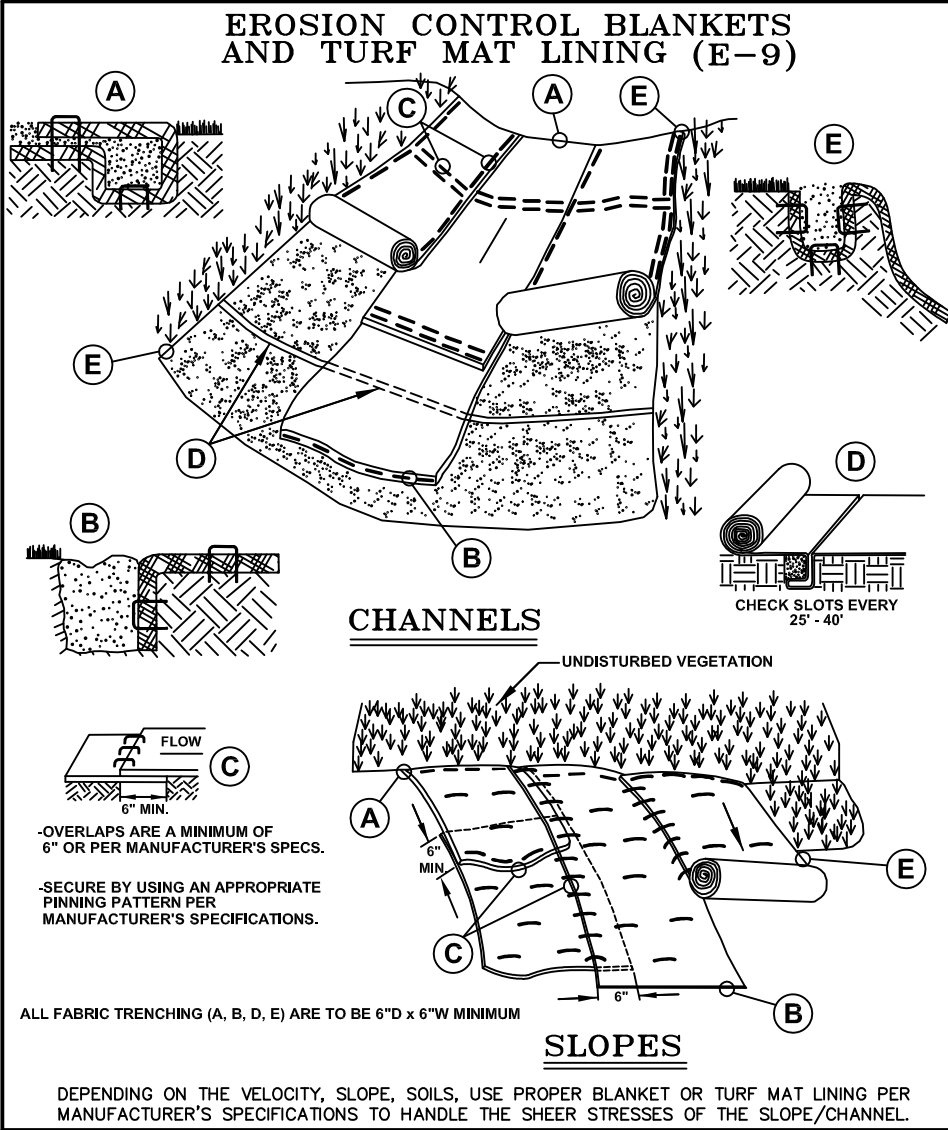
ORIGINAL ISSUE DATE:
7/1/2021

Project No. 2021-008

SCALE: N/A

DRAWING NUMBER:

GSI-2.0



NOTE:

WHILE PERFORMING WORK INVOLVING GROUNDS MAINTENANCE AND/OR THE CONSTRUCTION/MAINTENANCE OF ANY INFRASTRUCTURE, INCLUDING ROADS, WATER MAINS, SANITARY SEWERS, STORM DRAINS AND STORM WATER BEST MANAGEMENT PRACTICES (BMPs), CONTRACTORS SHALL MINIMIZE POLLUTION FROM STORM WATER RUNOFF THAT CAN AFFECT WATER QUALITY RELATED TO WORK ACTIVITIES. POLLUTANTS THAT COULD IMPAIR WATER QUALITY MAY INCLUDE FUEL, GREASE AND OIL, NUTRIENTS, BACTERIA AND PATHOGENS, LITTER AND DEBRIS, AND SOIL EROSION AND SEDIMENTATION. APPLICABLE BMPs SHALL BE IMPLEMENTED BY THE CONTRACTOR TO THE MAXIMUM EXTENT PRACTICABLE TO PROTECT WATER QUALITY AND WILDLIFE HABITAT.

SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

REVISION BLOCK

| Rev. | By | Desc. |
|------|-----|--|
| 1 | WRC | PROPOSED DETAIL |
| 2 | WRC | FOR CONSTRUCTION APPROVAL / NAME CHANGES |
| 3 | WRC | FOR CONSTRUCTION APPROVAL / NAME CHANGES |
| 4 | WRC | FOR CONSTRUCTION APPROVAL / NAME CHANGES |

ORIG. DATE: 01/01/01

SCALE: NONE

DESIGNED BY: WRC

DRAWN BY: Mapping

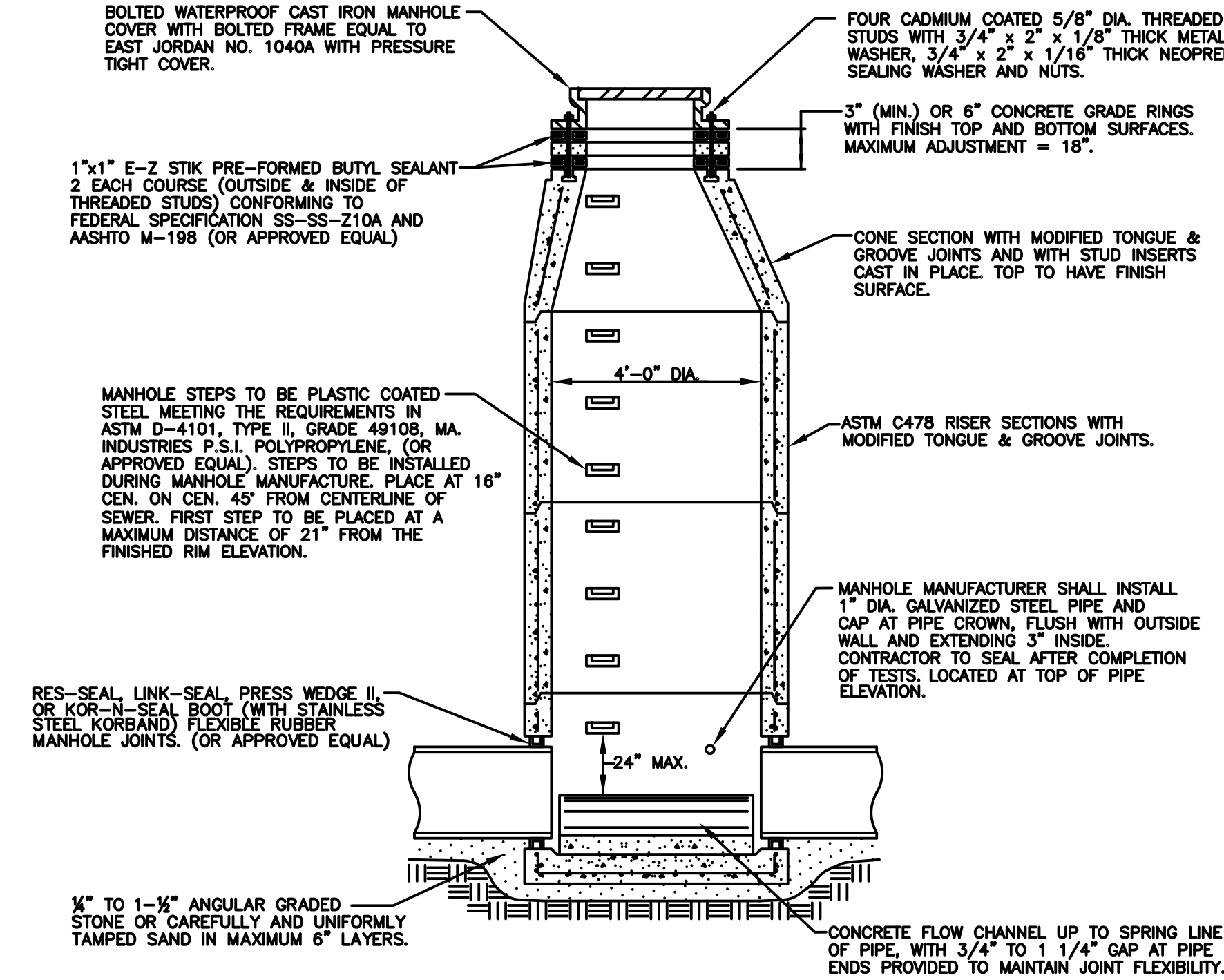
WRC WATER RESOURCES COMMSSION

ONE PUBLIC WORKS DRIVE, BLDG 95 WEST WATERFORD, MICHIGAN 48328-1907

SHEET NO.: 1 of 1

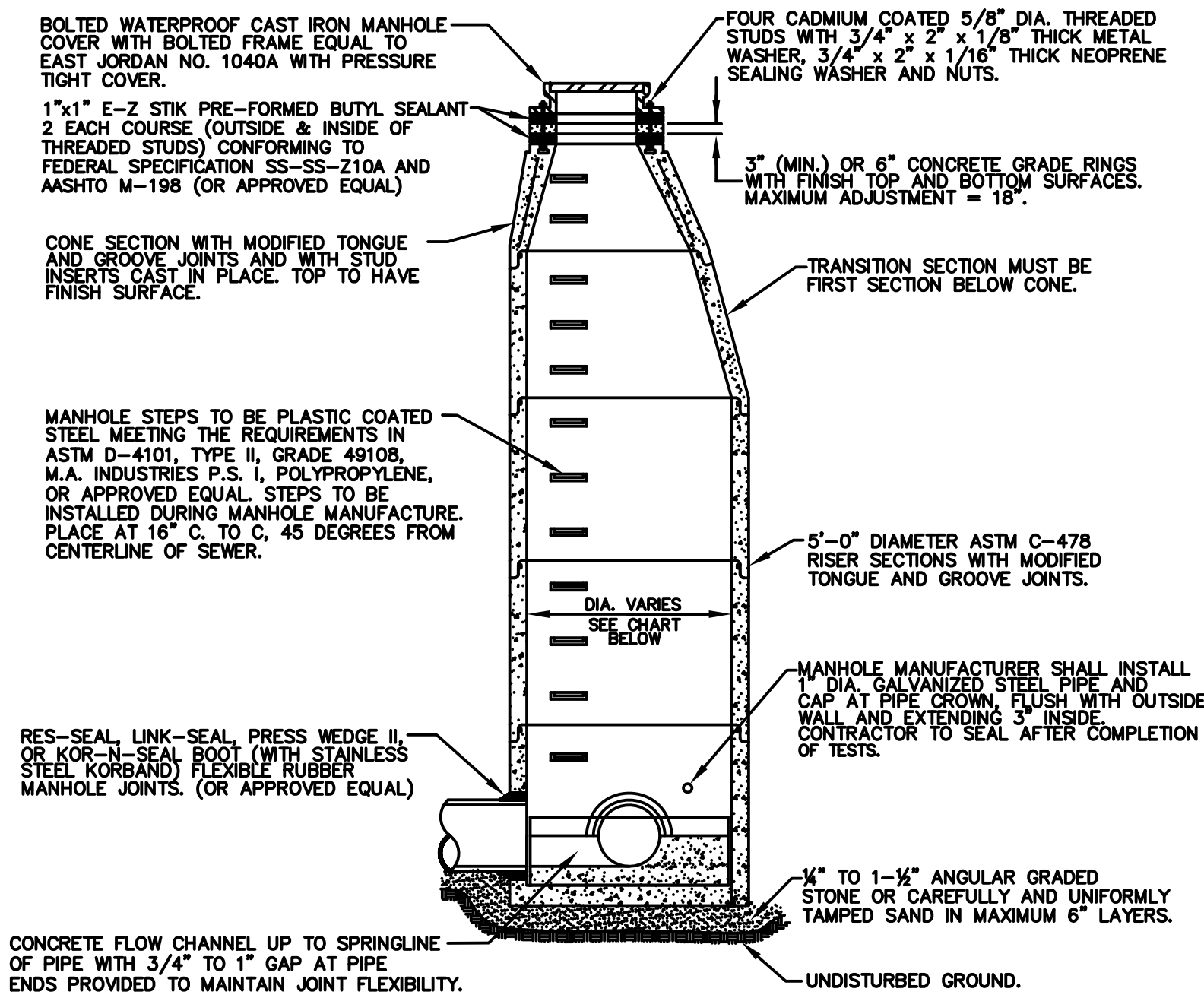
SANITARY SEWER CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL UNIT OF GOVERNMENT AND THE WATER RESOURCES COMMISSIONER (WRC). ALL SANITARY SEWER CONSTRUCTION SHALL HAVE FULL-TIME INSPECTION SUPERVISED BY A STATE OF MICHIGAN LICENSED PROFESSIONAL ENGINEER PROVIDED BY, OR CAUSED TO BE PROVIDED BY, THE LOCAL UNIT OF GOVERNMENT.
2. AT ALL CONNECTIONS TO WRC SEWERS OF EXTENSIONS, AND BEFORE START OF CONSTRUCTION, THE CONTRACTOR MUST OBTAIN A SEWER INSPECTION PERMIT ISSUED BY WRC. GRAVITY SEWER PERMIT CHARGES ARE \$250 FOR EACH CONNECTION PLUS \$25 FOR EACH MANHOLE CONSTRUCTED. PRESSURE SEWER PERMIT CHARGES ARE \$250 PER 2,460 L.F. OF FORCE MAIN WITH A MINIMUM PERMIT FEE OF \$250. FAILURE TO PASS ANY TEST SEGMENT WILL RESULT IN AN ADDITIONAL CHARGE TO THE CONTRACTOR FOR EACH RETEST, IN ACCORDANCE WITH THE ABOVE PRICE SCHEDULE. THE CONTRACTOR SHALL ALSO HAVE POSTED WITH WRC A \$5,000 SURETY BOND AND \$500 CASH DEPOSIT. THE CONTRACTOR SHALL NOTIFY THE LOCAL UNIT OF GOVERNMENT AND WRC (248-858-1105) 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. FINAL ACCEPTANCE TESTS MUST BE WITNESSED BY COUNTY PERSONNEL AND MUST BE SCHEDULED BY MUNICIPALITY OR ITS CONSULTANT IN ADVANCE WITH 24 HOUR NOTICE AT 248-858-1105.
3. NO SEWER INSTALLATION SHALL HAVE AN INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE IN A 24 HOUR PERIOD, AND NO SINGLE RUN OF SEWER BETWEEN MANHOLES SHALL EXCEED 100 GALLONS PER INCH DIAMETER PER MILE. AIR TESTS IN LIEU OF INFILTRATION TESTS SHALL BE AS SPECIFIED IN THE WATER RESOURCES COMMISSIONER STANDARDS. ONLY PIPE AND PIPE JOINTS APPROVED BY WRC MAY BE USED FOR SANITARY SEWER CONSTRUCTION.
4. LOCATED IN THE FIRST MANHOLE UPSTREAM FROM THE POINT OF ALL CONNECTIONS TO AN EXISTING WRC SEWER, OR EXTENSION THERETO, A TEMPORARY 12-INCH DEEP SUMP SHALL BE PROVIDED IN THE FIRST MANHOLE ABOVE THE CONNECTION WHICH WILL BE FILLED IN AFTER SUCCESSFUL COMPLETION OF ANY ACCEPTANCE TEST UP TO THE STANDARD FILLET PROVIDED FOR THE FLOW CHANNEL. A WATERTIGHT BULKHEAD SHALL BE PROVIDED ON THE DOWNSTREAM SIDE OF THE SUMP MANHOLE.
5. AT ALL TIMES WHEN LAYING OF NEW PIPE IS NOT ACTUALLY IN PROGRESS, THE UPSTREAM OPEN END OF THE PIPE SHALL BE CLOSED BY TEMPORARY WATERTIGHT PLUGS OR BY OTHER APPROVED MEANS. IF WATER IS IN THE TRENCH WHEN WORK IS RESUMED, THE PLUG SHALL NOT BE REMOVED UNTIL THE DANGER OF WATER ENTERING THE PIPE HAS PASSED.
6. ALL BUILDING LEADS AND RISERS SHALL BE SIX INCH SDR 23.5 ABS PIPE WITH CHEMICALLY FUSED JOINTS OR AN APPROVED EQUAL PIPE AND JOINT. BUILDING LEADS TO BE FURNISHED WITH REMOVABLE AIRTIGHT AND WATERTIGHT STOPPERS.
7. ALL RIGID SEWER PIPE SHALL BE INSTALLED IN CLASS "B" BEDDING OR BETTER. ALL FLEXIBLE, SEMI-FLEXIBLE, OR COMPOSITE SEWER PIPE SHALL BE INSTALLED IN CONFORMANCE TO WRC SPECIFICATIONS.
8. ALL NEW MANHOLES SHALL HAVE WRC APPROVED FLEXIBLE, WATERTIGHT SEALS WHERE PIPES PASS THROUGH WALLS. MANHOLES SHALL BE OF PRE CAST SECTIONS WITH MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS. PRE CAST MANHOLE CONE SECTIONS SHALL BE WRC APPROVED MODIFIED ECCENTRIC CONE TYPE. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS.
9. AT ALL CONNECTIONS TO MANHOLES ON WRC SEWERS, OR EXTENSIONS THERETO, DROP CONNECTIONS WILL BE REQUIRED WHEN THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 18 INCHES.
10. TAPS TO EXISTING MANHOLES SHALL BE MADE BY CORING. THE CONTRACTOR SHALL PLACE A KOR-N-SEAL BOOT (OR WRC APPROVED EQUAL) AFTER CORING IS COMPLETED. BLIND DRILLING WILL ONLY BE PERMITTED IN LIEU OF CORING WITH PRIOR WRC APPROVAL.
11. MANHOLES CONSTRUCTED DIRECTLY ON WRC SEWERS SHALL BE PROVIDED WITH COVERS READING "WATER RESOURCES COMMISSIONER-SANITARY" IN RAISED LETTERS.
12. NO GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWN SPOUT DRAINAGE OR WEEP TILE DRAINAGE SHALL BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.
13. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL TELEPHONE MISS DIG (800-482-7171) FOR THE LOCATION OF UNDERGROUND PIPELINE AND CABLE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.
14. AN 18 INCH MINIMUM VERTICAL SEPARATION AND A 10 FOOT MINIMUM HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN SANITARY SEWER AND WATER MAIN.
15. NEW MANHOLES BUILT OVER AN EXISTING SANITARY SEWER SHALL HAVE MONOLITHIC POURED BOTTOMS.
16. IF THE STRUCTURE FALLS WITHIN THE ROADBED OF A GRAVEL ROAD OR WITHIN THE UNPAVED SHOULDER OF A PAVED ROAD, THE COVER SHALL BE SIX (6") INCHES BELOW THE FINISHED GRAVEL SURFACE.



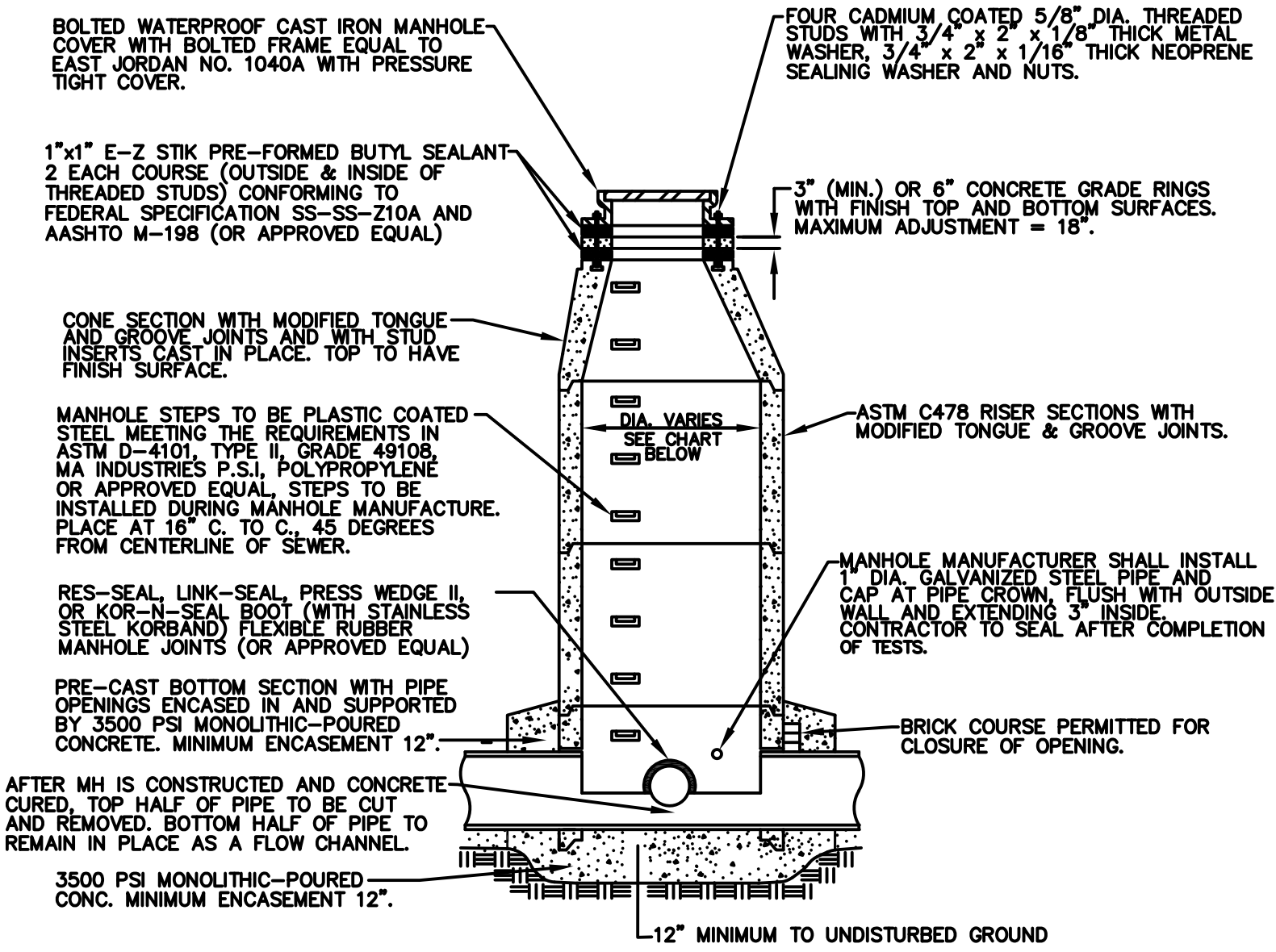
STANDARD MANHOLE

| MAX. PIPE SIZE FOR STRAIGHT THRU INSTALLATION | MAX. PIPE SIZE FOR RIGHT ANGLE INSTALLATION |
|---|---|
| 24" | 18" |



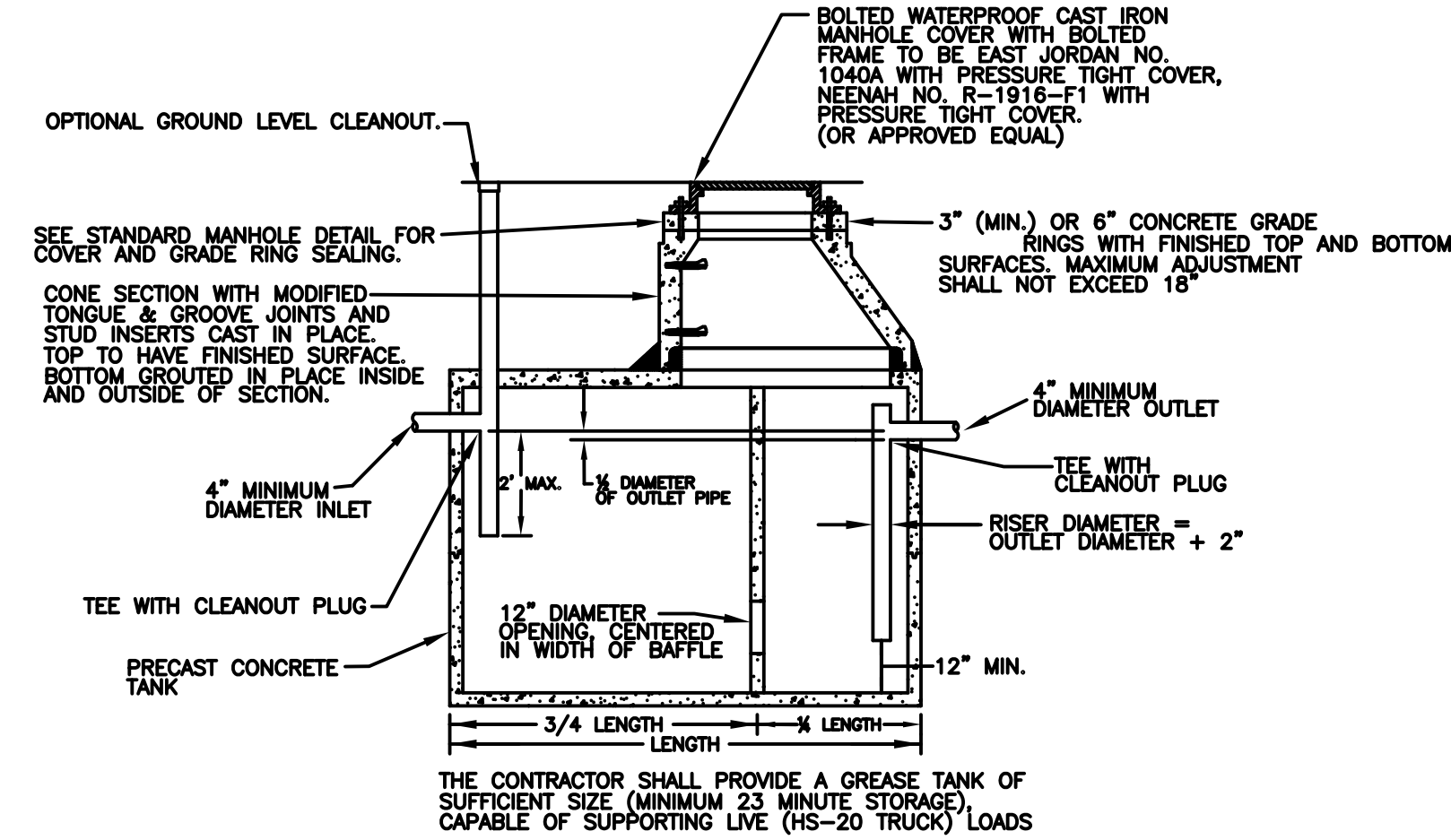
STANDARD OVERSIZED MANHOLE

| MANHOLE SIZING CHART | | |
|----------------------|--|--------------------------------------|
| MANHOLE DIAMETER | MAX. PIPE SIZE FOR STRAIGHT THRU INST. | MAX. PIPE SIZE FOR RIGHT ANGLE INST. |
| 5' | 36" | 24" |
| 6' | 42" | 36" |
| 7' | 60" | 42" |

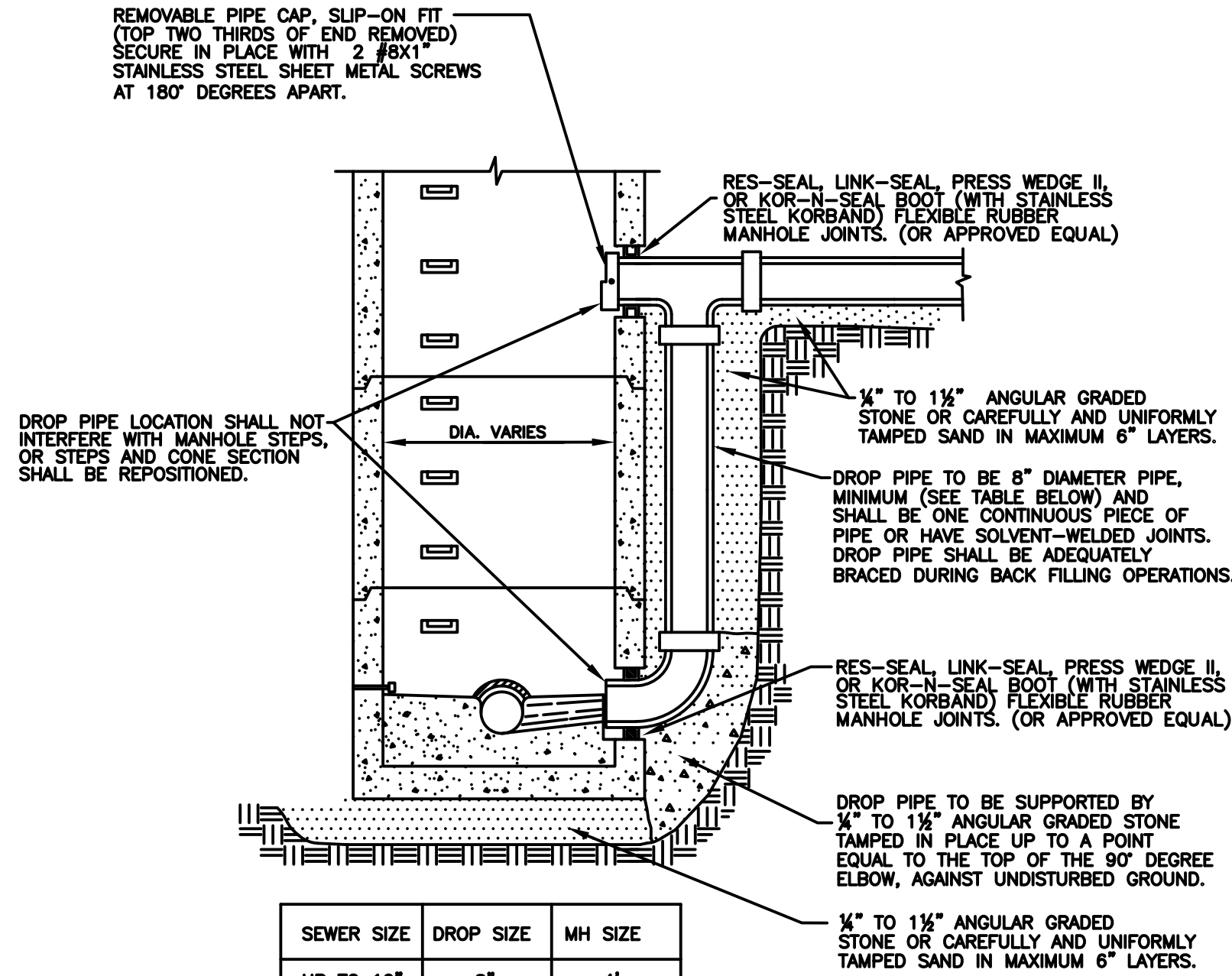


MANHOLE CONSTRUCTED OVER EXISTING SEWER

| MANHOLE SIZING CHART | |
|----------------------|--|
| MANHOLE DIAMETER | MAX. PIPE SIZE FOR STRAIGHT THRU INST. |
| 4' | 24" |
| 5' | 36" |
| 6' | 42" |
| 7' | 60" |

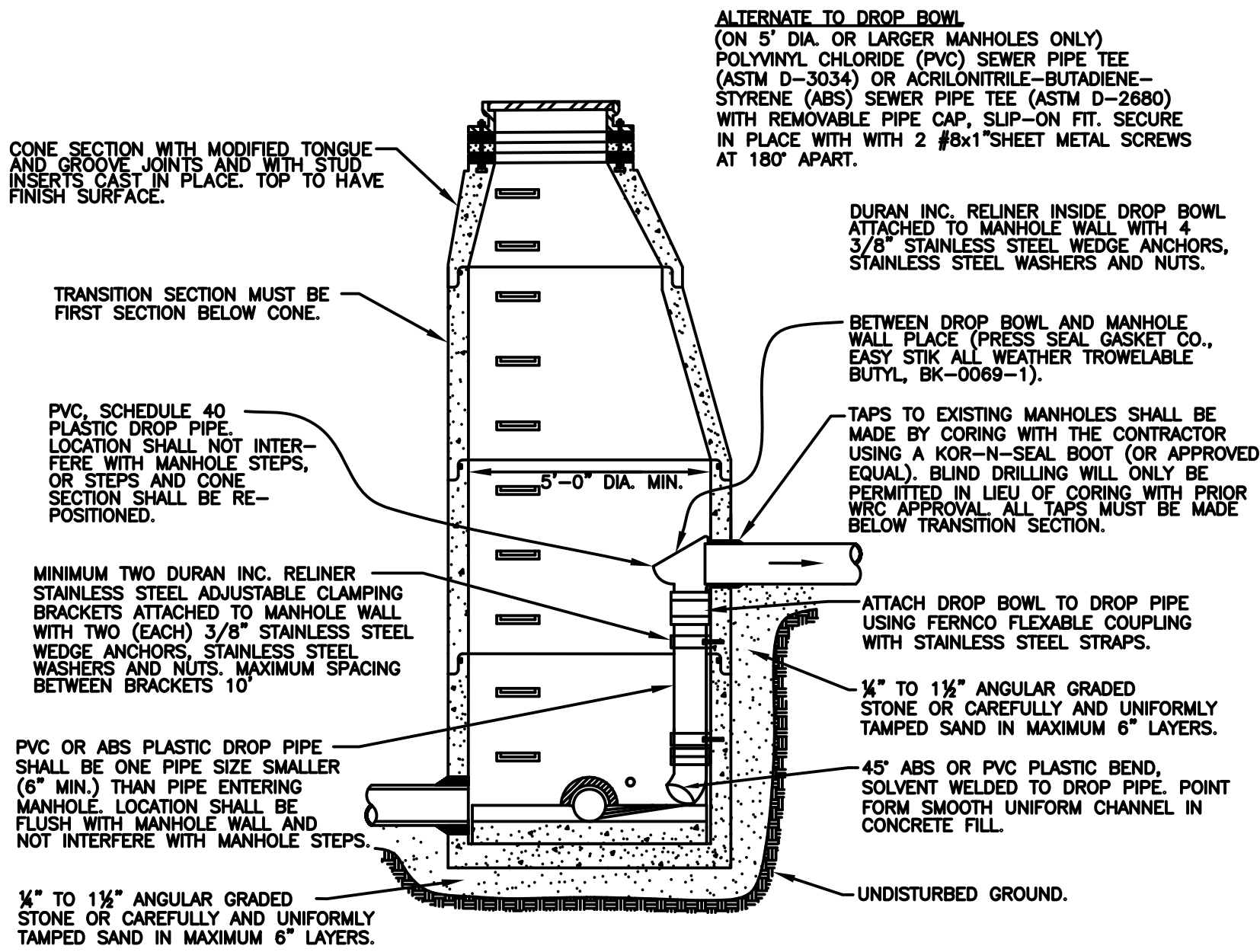


DOUBLE-COMPARTMENT GREASE INTERCEPTOR TANK FOR OUTLET PIPE BURIAL 42" AND DEEPER



| SEWER SIZE | DROP SIZE | MH SIZE |
|------------|-----------|---------|
| UP TO 10" | 8" | 4' |
| UP TO 18" | 10" | 4' |
| UP TO 30" | 18" | 5' |

EXTERIOR DROP CONNECTION (REQUIRES ADVANCED APPROVAL BY WRC)



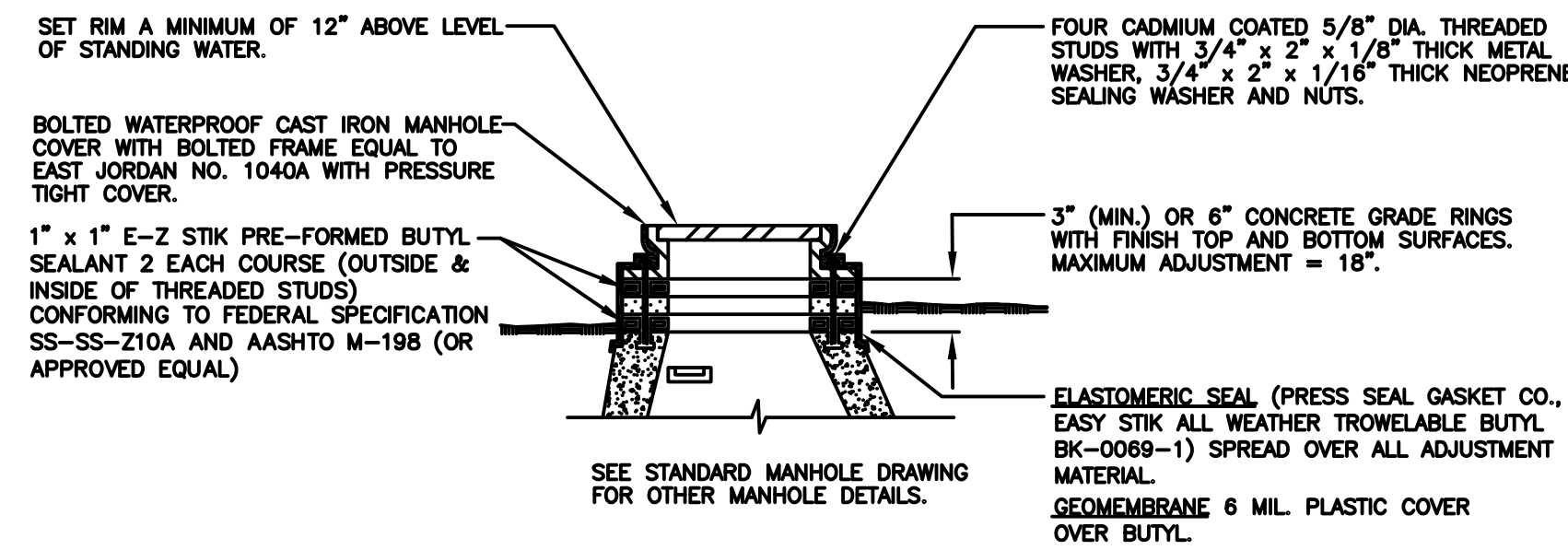
INTERIOR DROP CONNECTION

| REVISION BLOCK | | | |
|----------------------------|----------|------------|--|
| Parcel Base / Source Date: | N/A | | |
| Rev. No.: | Rev. By: | Rev. Date: | Description: |
| 1 | RRH | 8-31-10 | FIXED NOTES THAT HAD "GROOVE TONGUE" TO READ "TONGUE AND GROOVE" |
| 2 | CS | 3-23-11 | REMOVED STANDARD MONITORING MANHOLE |
| 3 | KB | 6-21-16 | ADDED NOTE "REQUIRES ADVANCED APPROVAL BY WRC" AND UPDATE PHONE # IN NOTE #2 |
| 4 | KB | 7-22-20 | UPDATED MH STEPS TO ASTM D-4101 |

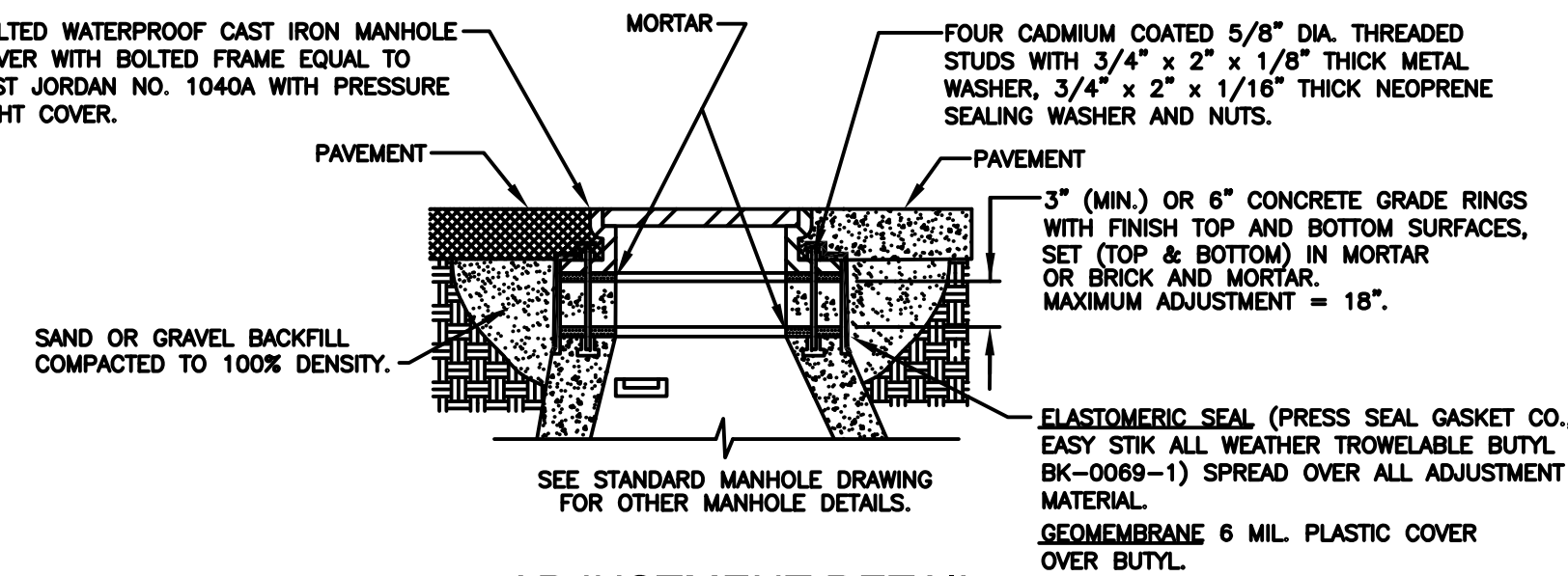
SANITARY SEWER DETAILS AND NOTES

| | | | |
|--------------|-------------|---|---|
| ORIG. DATE: | 08/21/02 |  WRC WATER RESOURCES COMMISSIONER <i>Jim Nash</i> | ONE PUBLIC WORKS DRIVE, BLDG 95 WEST WATERFORD, MICHIGAN 48328-1907 |
| SCALE: | NO SCALE | | |
| DESIGNED BY: | WRC | | |
| DRAWN BY: | WRC Mapping | | |
| | | | SHEET NO.: |

| | |
|------------------------|--------------------------|
| MANHOLE LOCATION | SET RIM ELEVATION |
| DITCH | 12" ABOVE FINISH GRADE |
| FLOOD PLAIN | 12" ABOVE STANDING WATER |
| GRAVEL ROAD / SHOULDER | 6" BELOW FINISH GRADE |
| PAVEMENT / GREENBELT | FLUSH WITH FINISH GRADE |



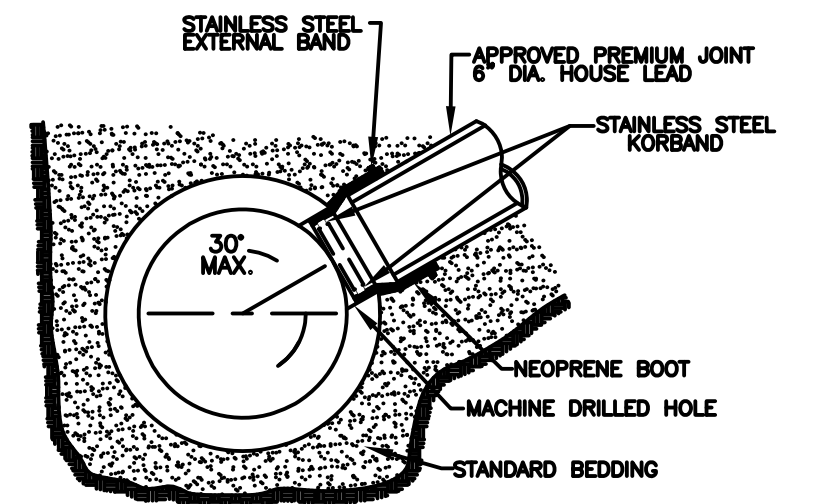
ADJUSTMENT DETAIL FOR MANHOLE TOPS WITHIN FLOOD PRONE AREAS



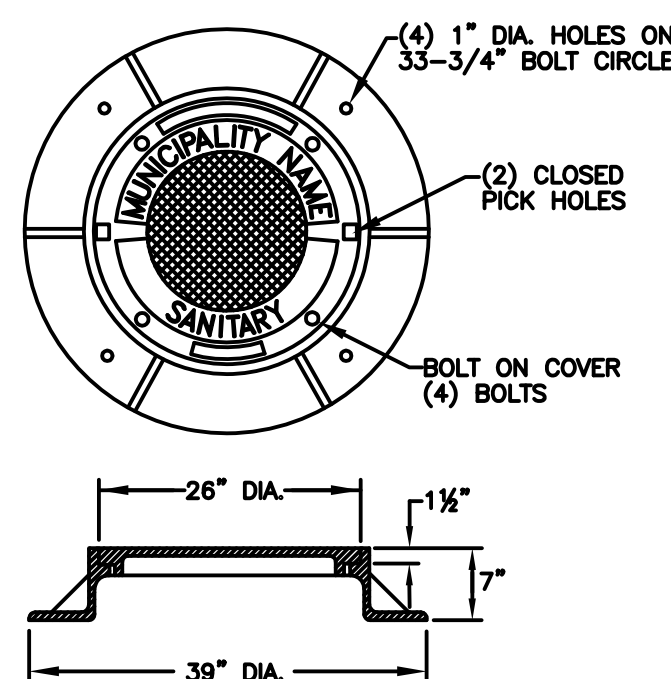
ADJUSTMENT DETAIL
MANHOLE TOPS WITHIN PAVEMENT AREAS

- WATER RESOURCES COMMISSIONER
GRAVITY BUILDING LEAD REQUIREMENTS AND DETAILS

1. ALL BUILDING LEAD WORK MUST BE PERFORMED UNDER WATER RESOURCES COMMISSIONER (WRC) AND/OR LOCAL UNIT OF GOVERNMENT INSPECTION.
2. FOR ALL WRC-OPERATED SYSTEMS, CALL 248-858-1110 24-HOURS IN ADVANCE OR WORK TO SCHEDULE INSPECTION.
3. NO SANITARY SEWER MAY BE USED AS A CLEANOUT OF DEWATERING OUTLET.
4. WHERE AN EXISTING BUILDING LEAD IS BEING EXTENDED, DISSIMILAR TYPES AND SIZES OF PIPE SHALL BE JOINED USING AN WRC APPROVED ADAPTER.
5. APPROVED BUILDING LEAD PIPE FOR GRAVITY SEWER LEADS:
 - A. ABS PLASTIC, ASTM D2751, SDR 23.5
 - B. PVC PLASTIC, ASTM D3034, SDR 23.5 OR ASTM D2865, SCHEDULE 40
 - C. DUCTILE IRON PIPE, AMERICAN WATER WORKS ASSOCIATION (AWWA) C-104/A21.4, CLASS 150, JOINTS SHALL BE SUPER BEL TITE, TYTON, TY-SEAL, MULTI-TITE, DUAL-TITE, OR VERB-TITE
 - D. ANY DEVIATIONS FROM SPECIFIED ABOVE REQUIRE APPROVAL BY WRC.
6. ALLOWABLE TYPES OF SEWER PIPE ADAPTERS:
 - A. FERNOCO ADAPTER/REDUCER DONUTS.
 - B. FERNOCO FLEXIBLE COUPLING.
 - C. MISSION CLAY BAND-SEAL COUPLING.
 - D. SMITH-BLAIR STAINLESS STEEL REPAIR CLAMP.
 - E. HURON-CLINTON G-RING ADAPTER.
 - F. HAMILTON-KENT GEAR GRIP ADAPTER.
 - G. PLANT FABRICATED JOINT CONVERSION PIPE.

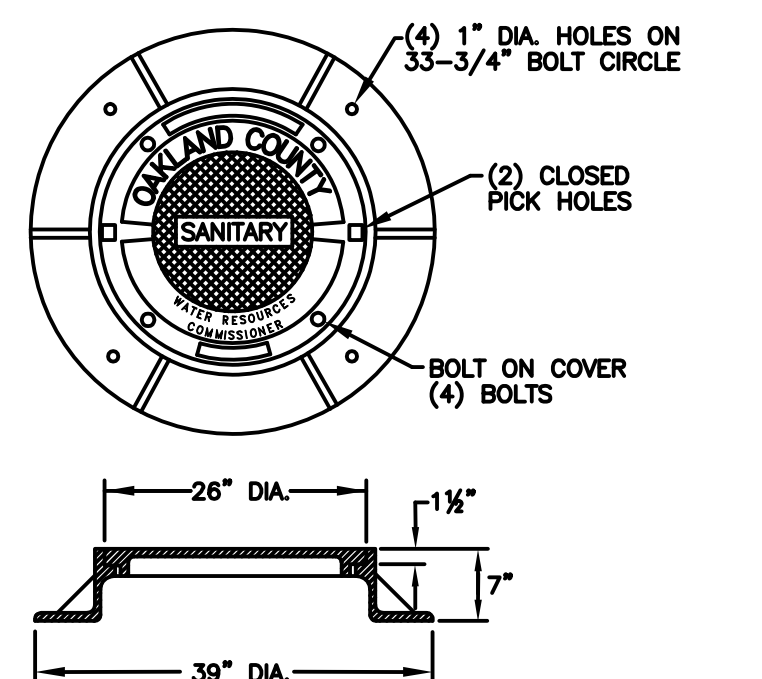


KOR-N-TEE TAP FOR CONCRETE PIPE



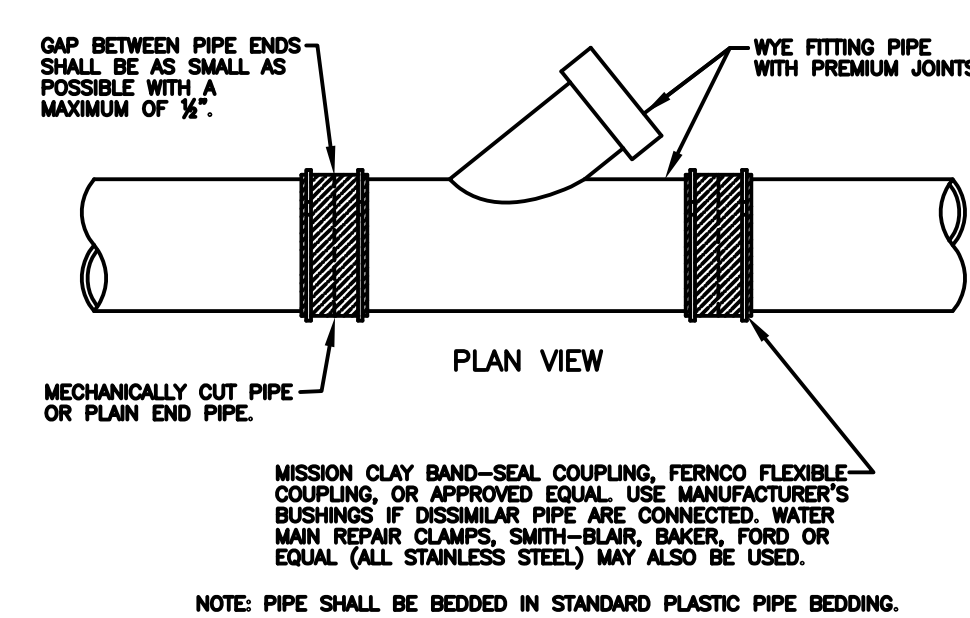
EAST JORDAN IRON WORKS
HEAVY DUTY MATERIAL ASTM A48 CL.35
COVER WT., 150 LBS., CATALOG NO. 1040A
PATTERN NO. 1040A, PRODUCT NO. 1040XX OAKCOSTD
2" RAISED LETTERS, 1" RAISED LETTERS
ALL RECESSED FLUSH.

LOCAL MUNICIPALITIES MANHOLE COVER

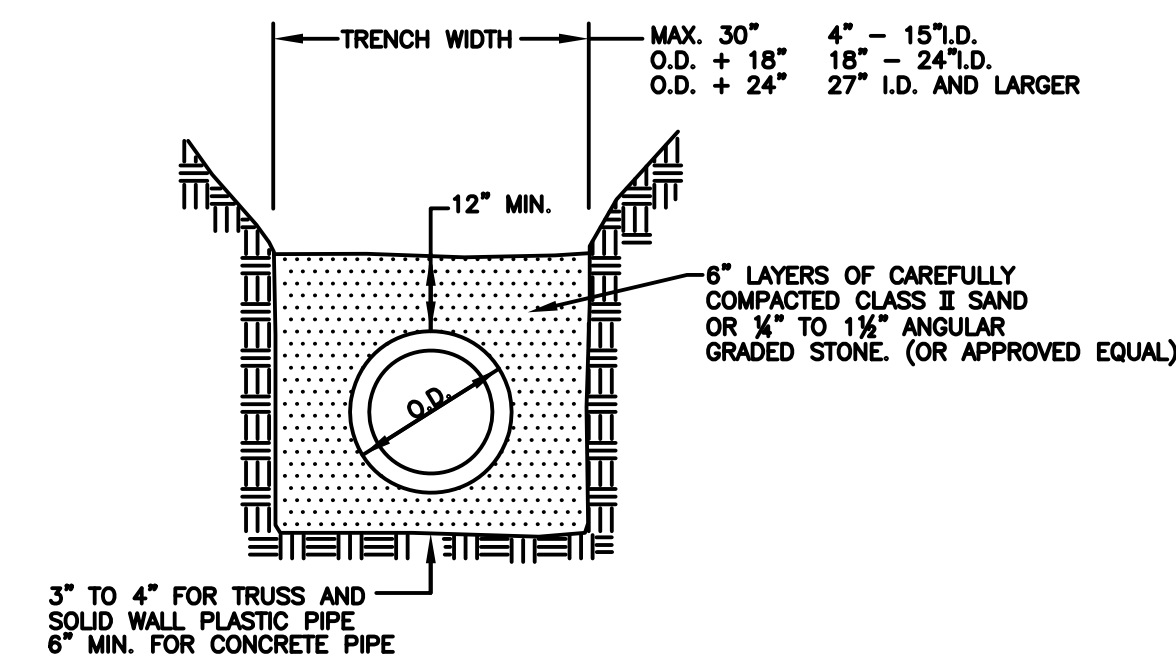


EAST JORDAN IRON WORKS
HEAVY DUTY MATERIAL ASTM A48 CL.35
COVER WT., 150 LBS., CATALOG NO. 1040APT
PATTERN NO. 1040A, PRODUCT NO. NCR09-1280 C
2" RAISED LETTERS, 1" RAISED LETTERS, 3/4" RAISED LETTERS
ALL RECESSED FLUSH.

W.R.C. LETTERED MANHOLE COVER

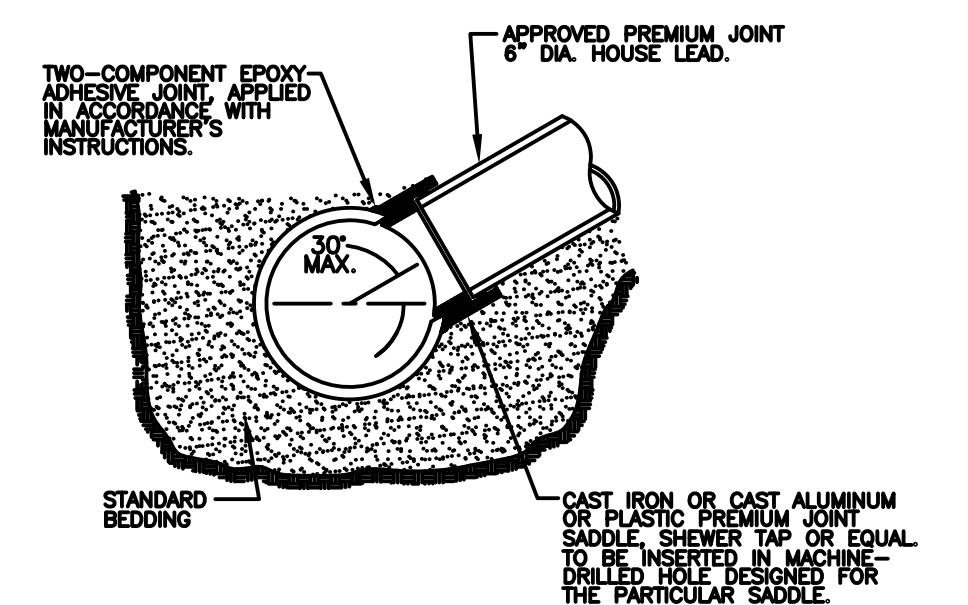


WYE PIPE INSERTION WITH FLEXIBLE COUPLINGS (RIGID PIPE)



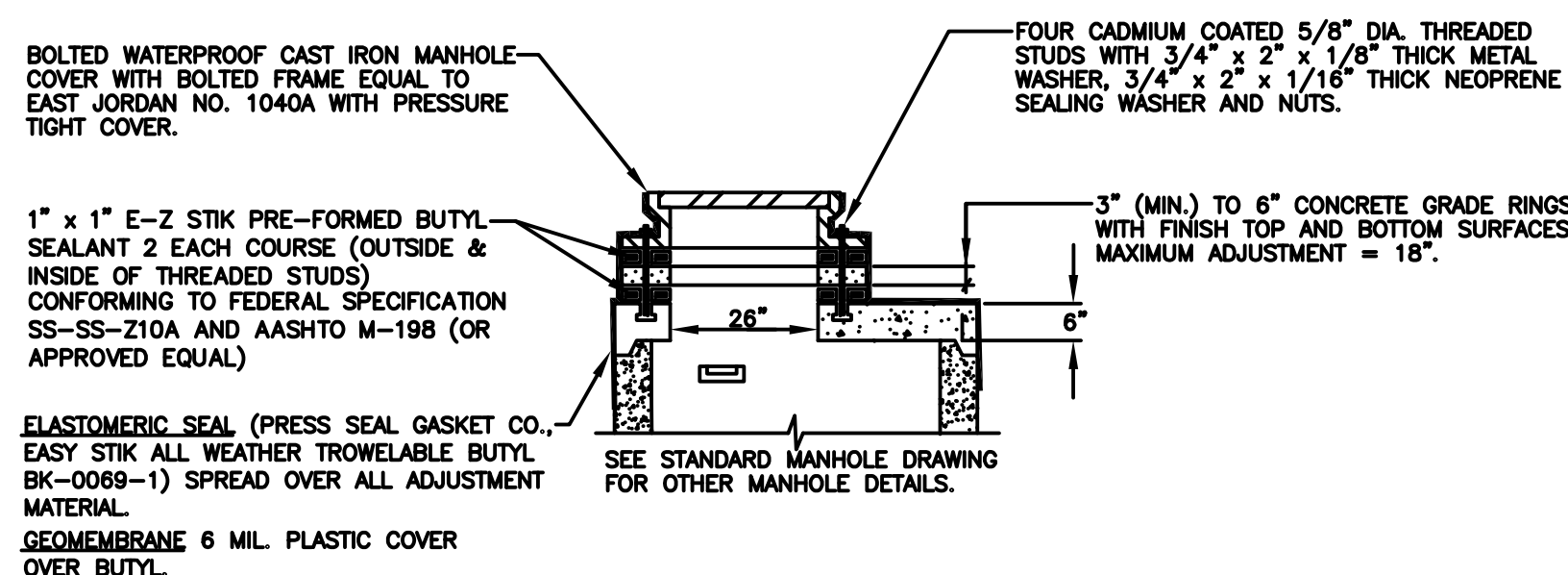
NOTE:
APPROVAL MAY BE GIVEN TO ALTERNATE
MATERIALS AND METHODS TO ACHIEVE
CLASS B BEDDING.

STANDARD BEDDING
(CLASS B)

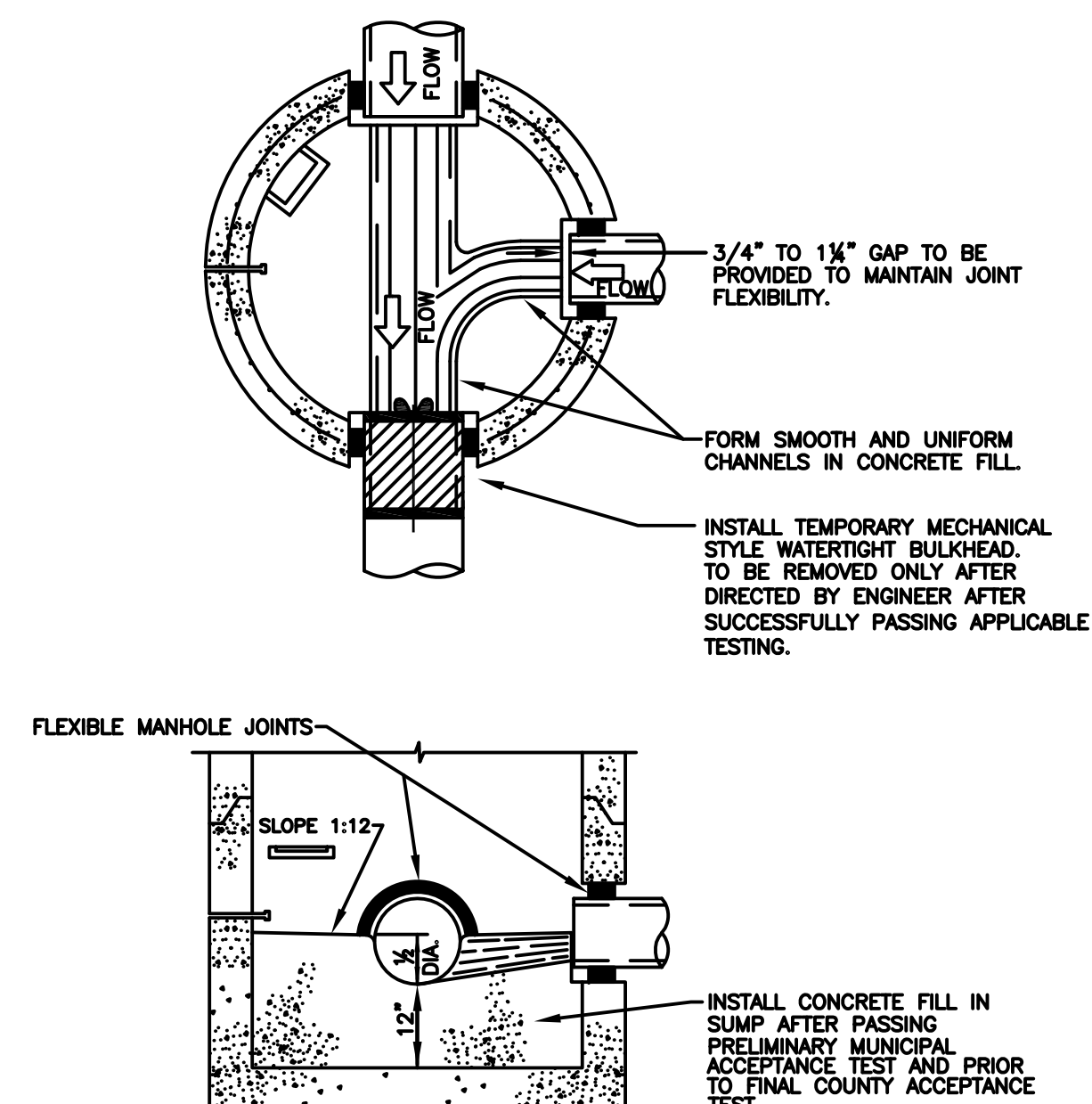


NOTE: SURFACE OF MAIN SEWER SHALL BE CLEANED WITH AN ABRASIVE GRINDER PRIOR TO EPOXY APPLICATION. DUE TO VARIATION OF SET-UP TIME OF EPOXY ADHESIVE WITH TEMPERATURE, ANCHOR STRAPS SHALL BE USED TO SECURE SADDLE IN POSITION IN COLD WEATHER OR WHENEVER WORK IS TO PROCEED PRIOR TO COMPLETE CURE OF EPOXY.

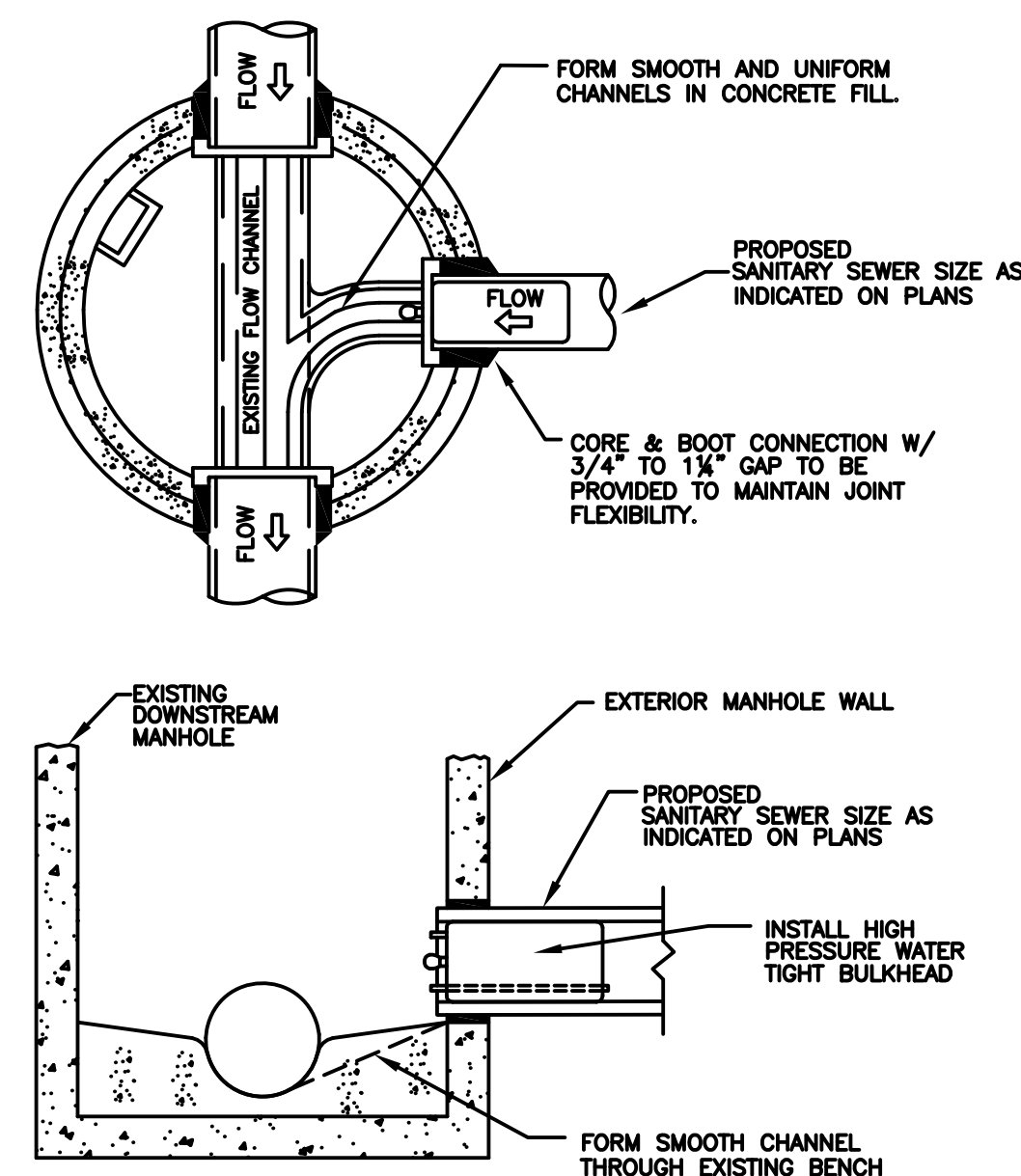
SEWER TAP-ALL SIZES OF MAIN SEWER PIPES
VITRIFIED CLAY



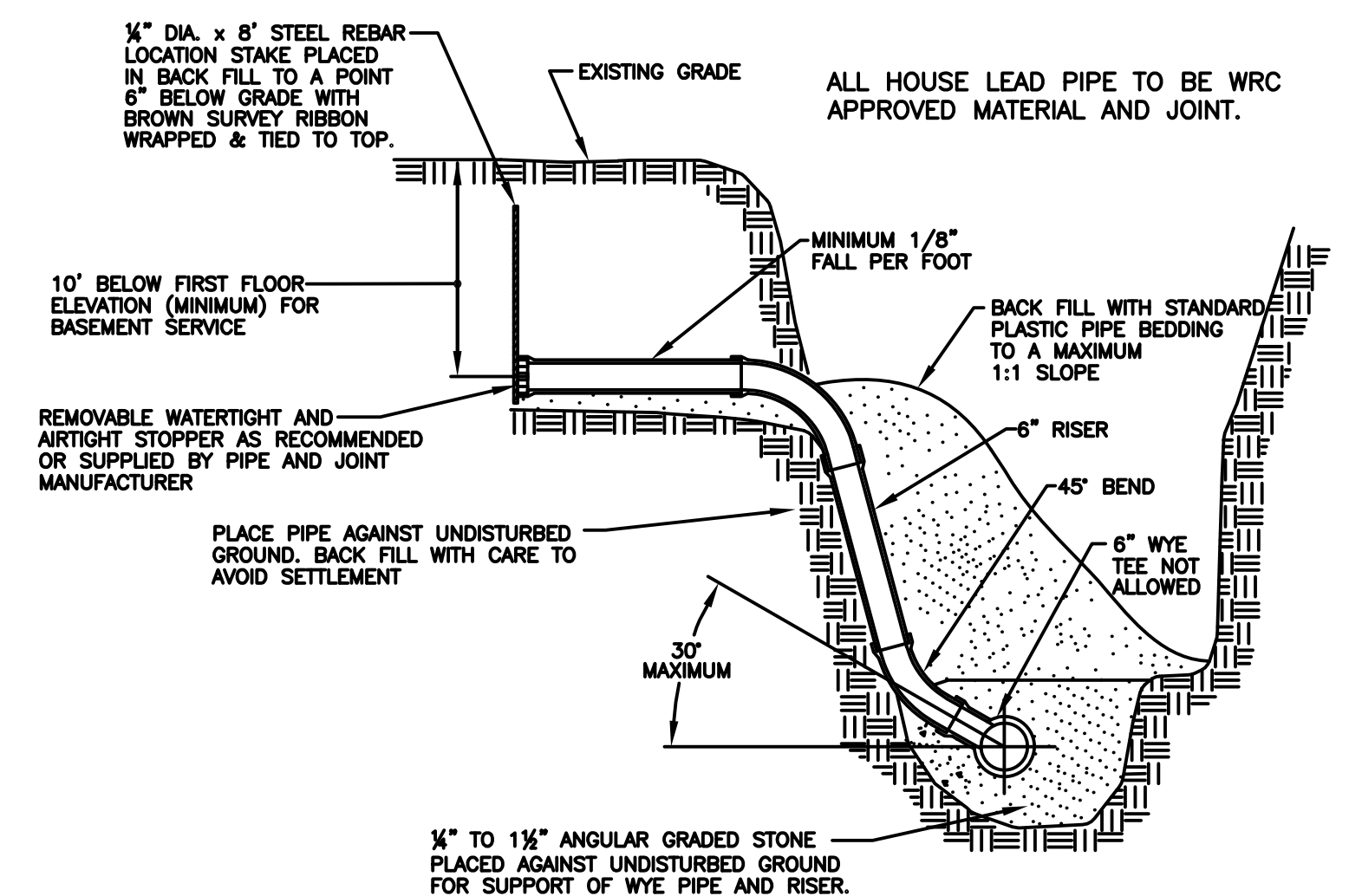
FLAT TOP MANHOLE



SUMP MANHOLE FOR TESTING,
CLEANING AND DEWATERING



TESTING BULKHEAD WITH PIPE TAP

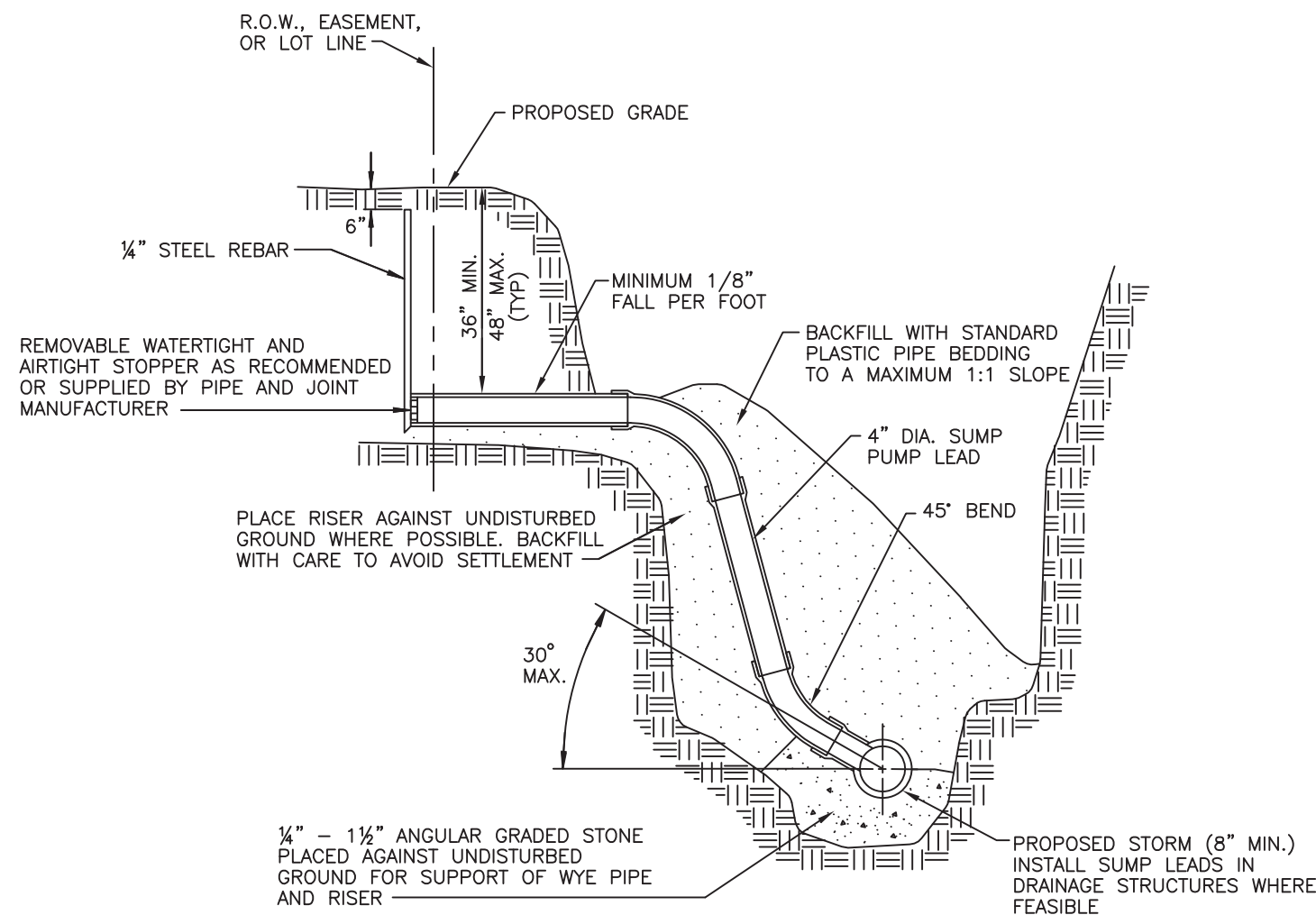


HOUSE LEAD DETAIL

| REVISION BLOCK | | | |
|--------------------------------|----------|------------|---|
| Parcel Base / Source Date: N/A | | | |
| Rev. No.: | Rev. By: | Rev. Date: | Description: |
| 1 | DS | 06/28/06 | ADDED TESTING BULKHEAD WITH PIPE TAP DETAIL |
| 2 | IS | 05/28/09 | MOVED DETAILS FROM SHEET 1 ONTO SHEET 2 |
| 3 | IS | 07/14/09 | STANDARDS COMMITTEE APPROVAL FOR DETAIL CHANGES |
| 4 | DS | 02/03/14 | BFR1 & C/FU10 DATE 02/03/14 WITH WRC FOR THE MANHOLE COVER DETAIL |

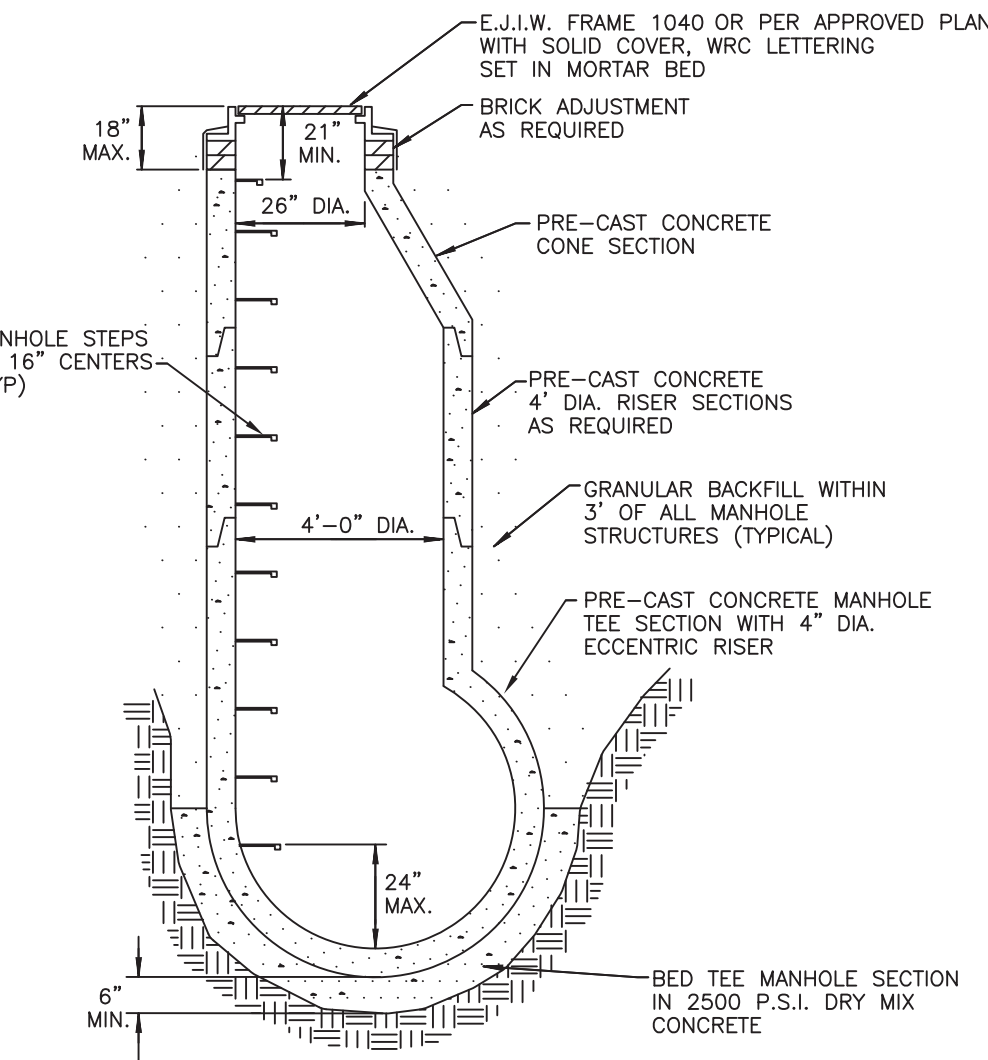
SANITARY SEWER DETAILS AND NOTES

| | | | |
|---------------------|---------------|---|---|
| ORIG. DATE: | 05-09-03 |  WRC WATER RESOURCES COMMISSIONER <i>Jim Nash</i> | ONE PUBLIC WORKS DRIVE, BLDG 95 WEST WATERFORD, MICHIGAN 48328-1907 |
| SCALE: | NO SCALE | | SHEET NO.: |
| DESIGNED BY: | MWD | | 2 of 2 |
| DRAWN BY: | Mapping Staff | | |



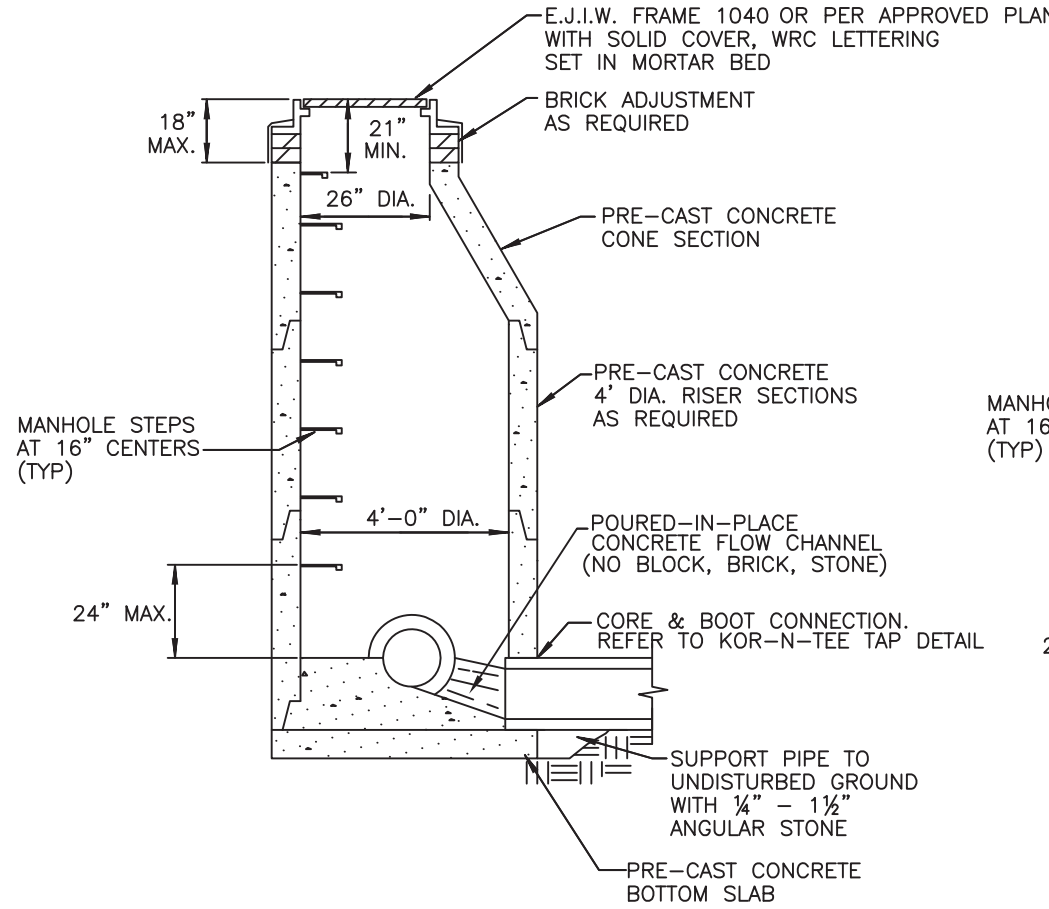
HOUSE LEAD DETAIL FOR 4" DIA.
PLASTIC SUMP PUMP LEADS

NO SCALE



PRE-CAST TEE MANHOLE DETAIL

NO SCALE



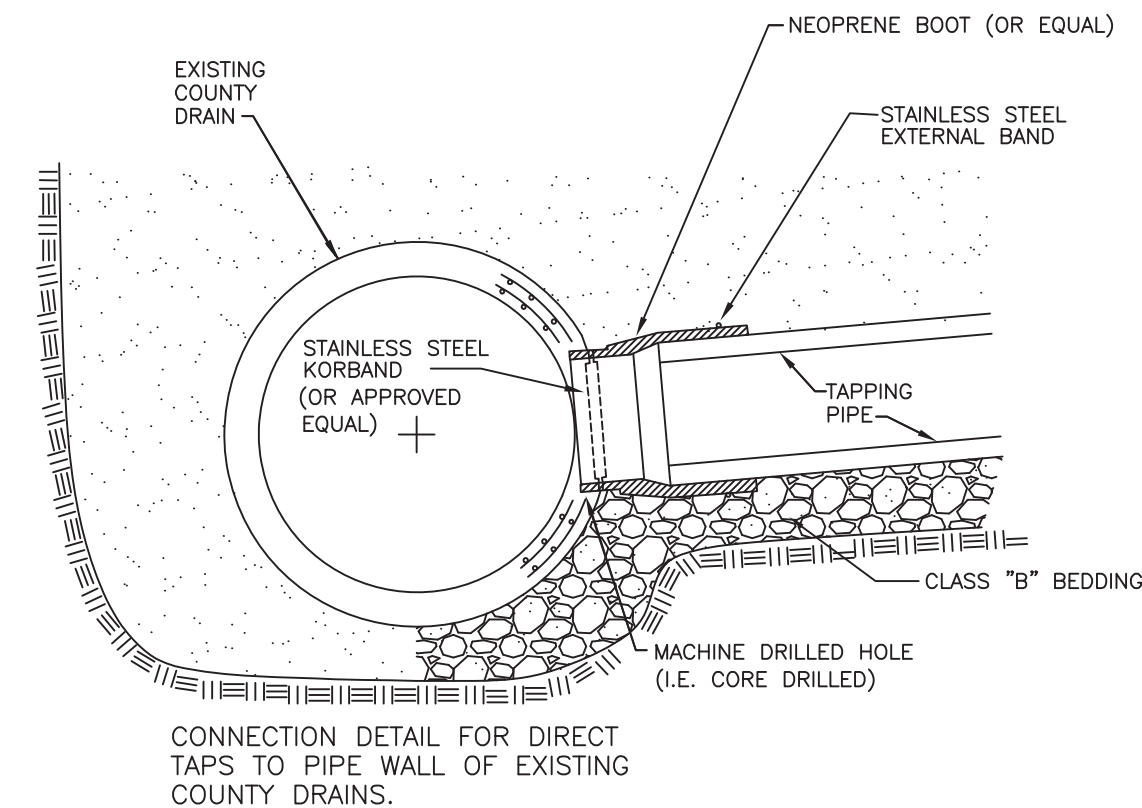
PRE-CAST MANHOLE

BLOCK MANHOLE (PRIOR APPROVAL ONLY)

BLOCK MANHOLE (PRIOR APPROVAL ONLY)

STANDARD MANHOLE DETAILS

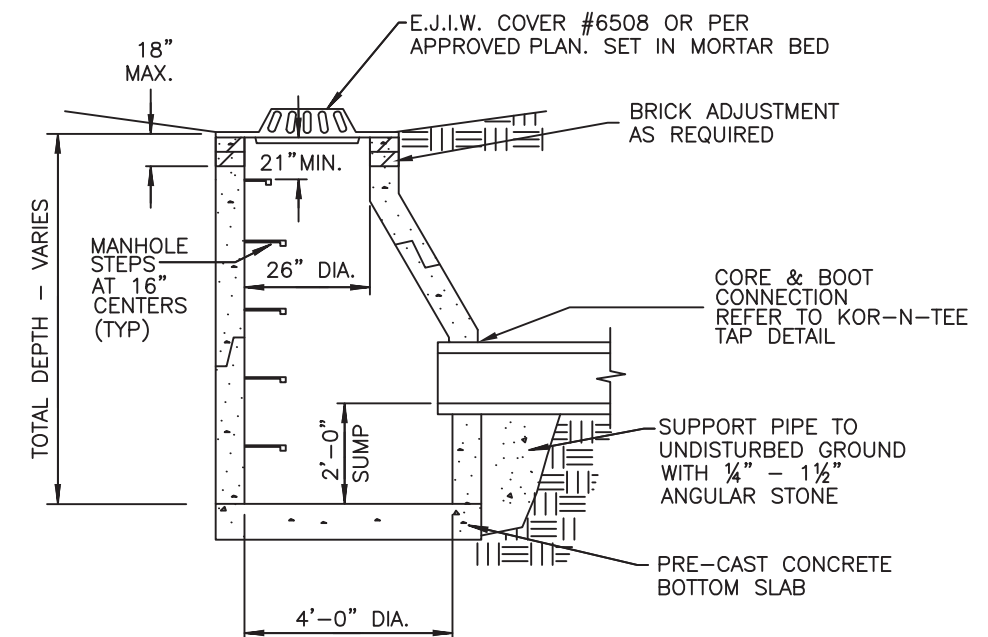
NO SCALE



KOR-N-TEE TAP (OR APPROVED EQUAL)

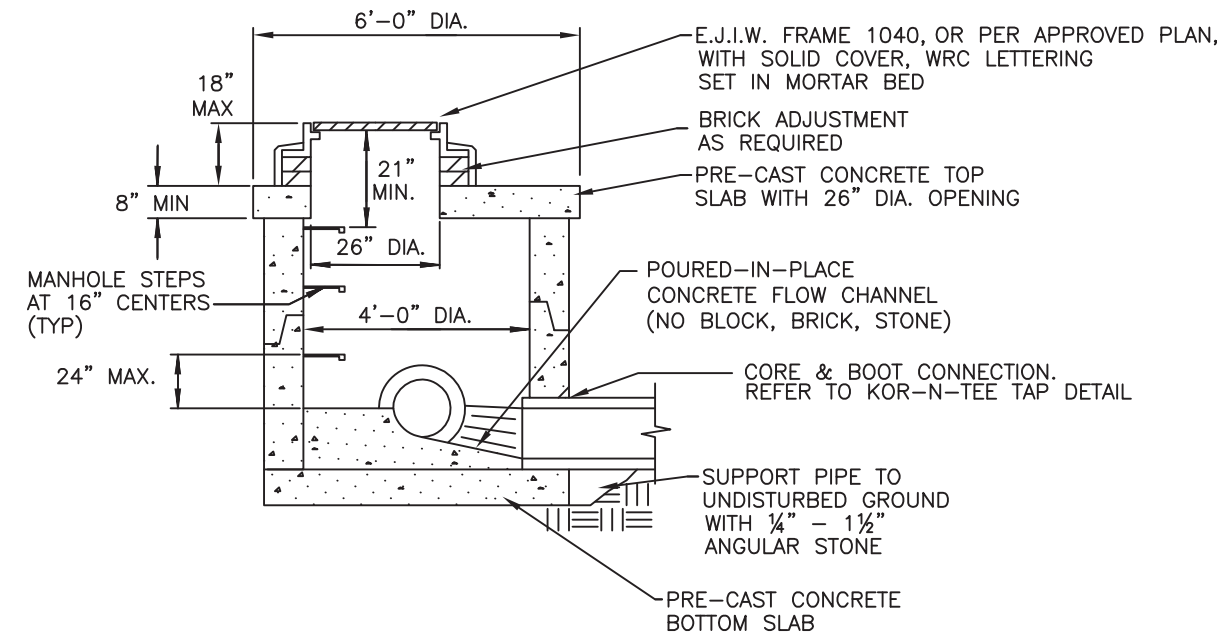
NO SCALE

- * For non-concrete to concrete taps.
- * Use link-seal, A-lock or approved equal for concrete to concrete taps.



PRE-CAST CATCH BASIN DETAIL

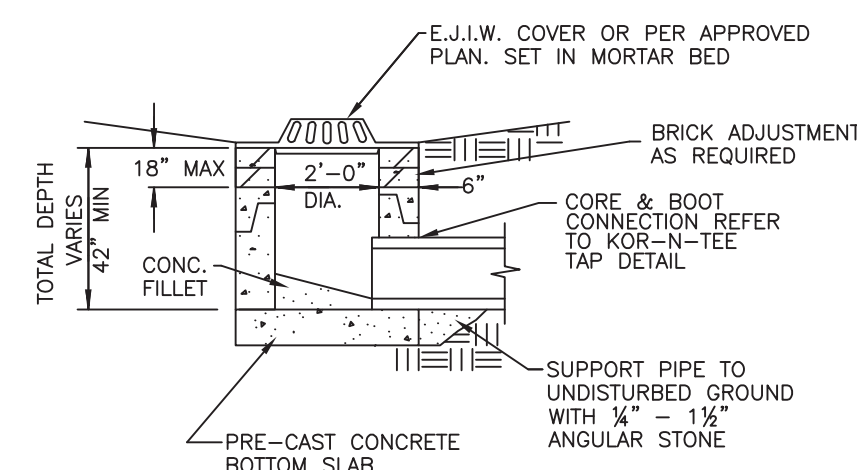
NO SCALE



PRE-CAST LOW HEAD MANHOLE DETAIL

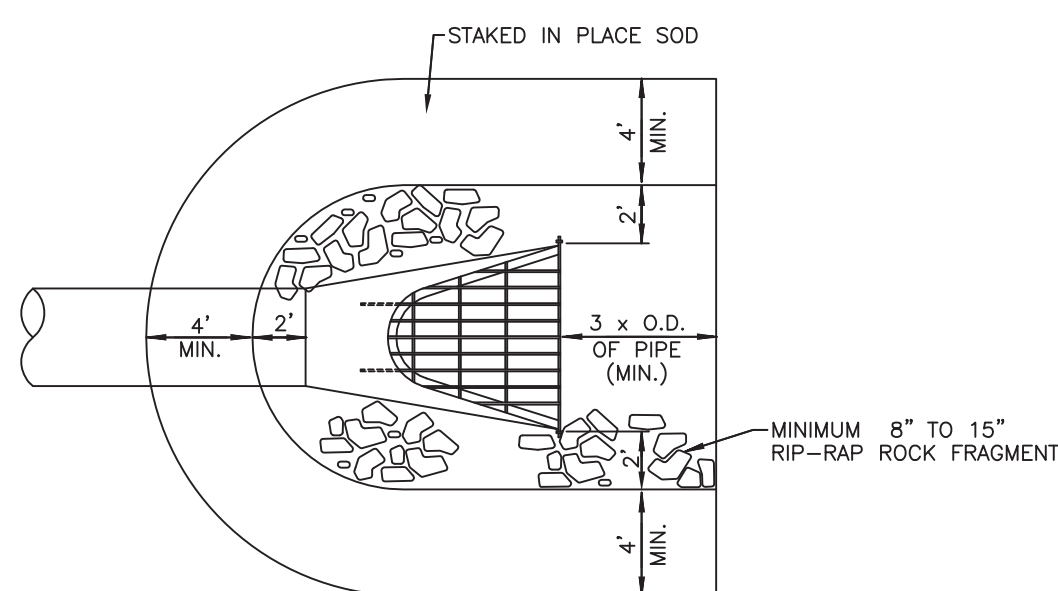
NO SCALE

(PRIOR APPROVAL ONLY)

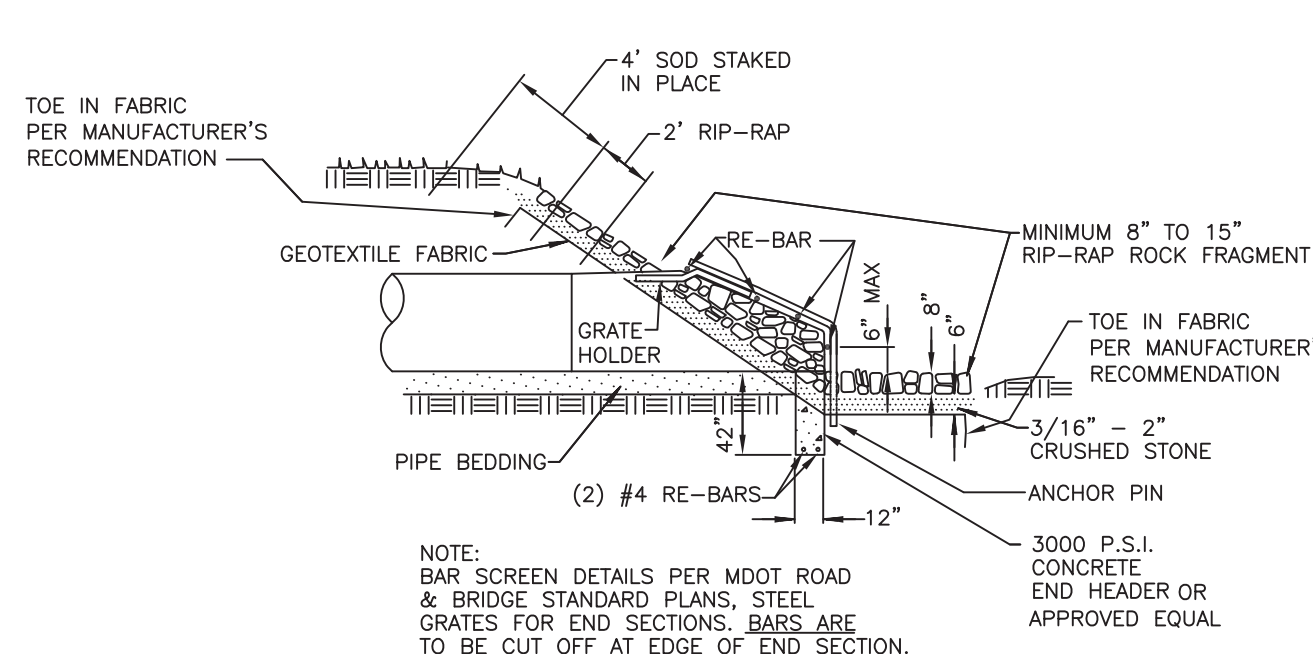


PRE-CAST INLET DETAIL

NO SCALE



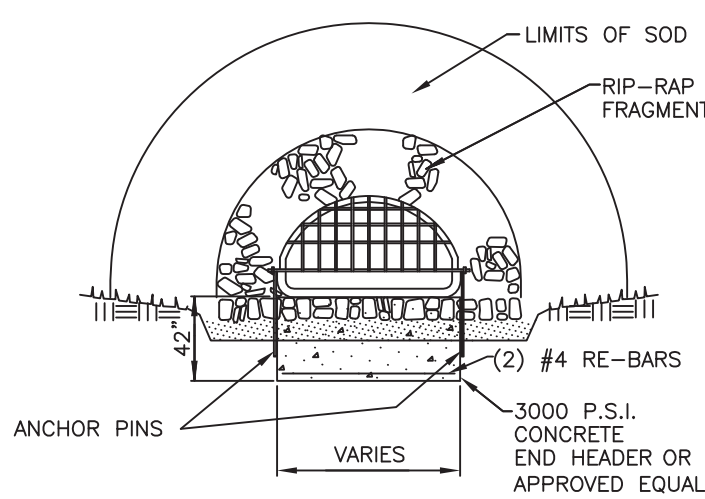
PLAN VIEW



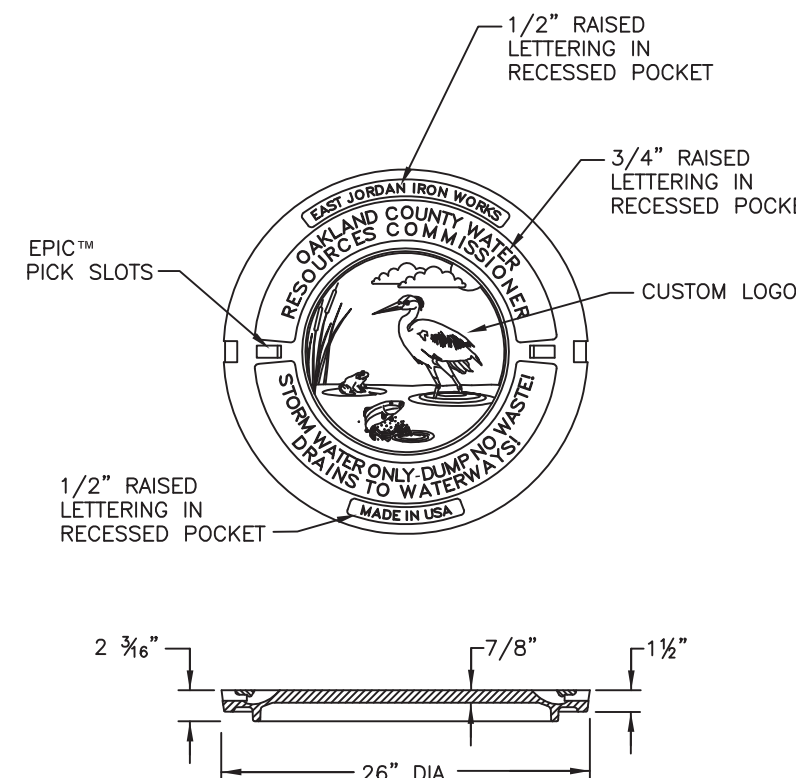
PROFILE VIEW

END SECTION AND BAR SCREEN DETAIL

NO SCALE



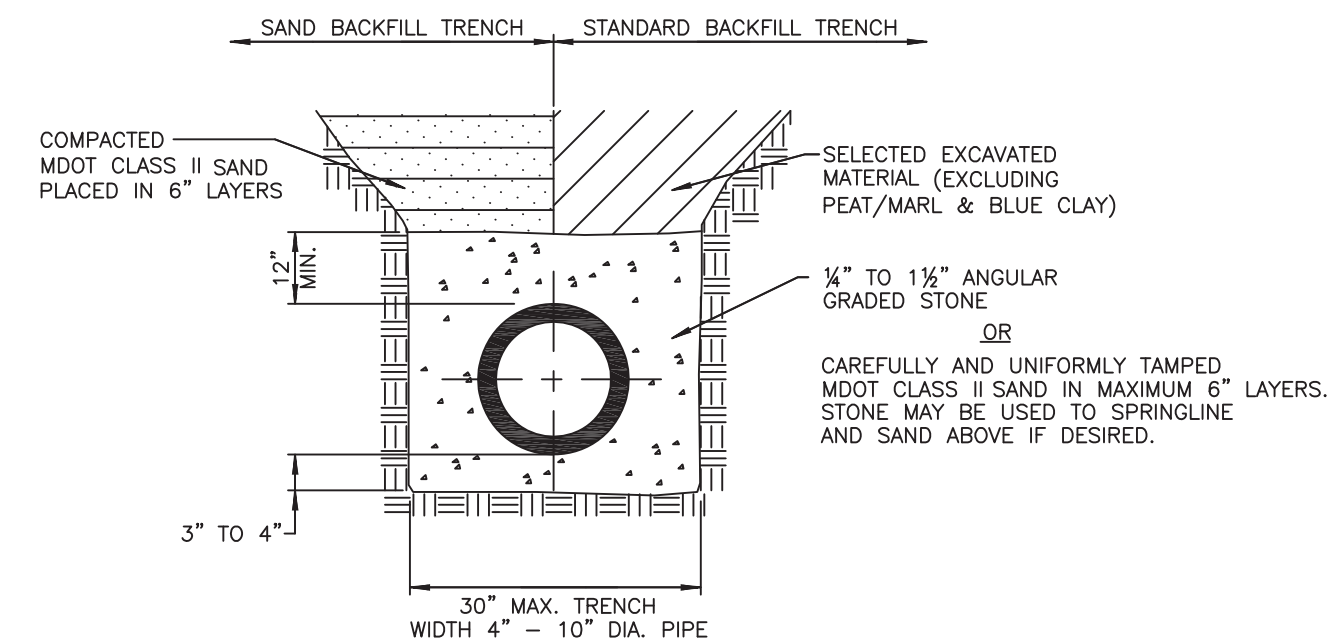
END VIEW



EAST JORDAN IRON WORKS OR APPROVED EQUAL
HEAVY DUTY MATERIAL ASTM A48 CL35B
CATALOG NO. 1040A
PATTERN NO. 1040A, PRODUCT NO. 104718 OAKCOSTD.
2" HIGH RAISED LETTERS, 1" WIDE RAISED LETTERS
ALL IN RECESSED POCKET.

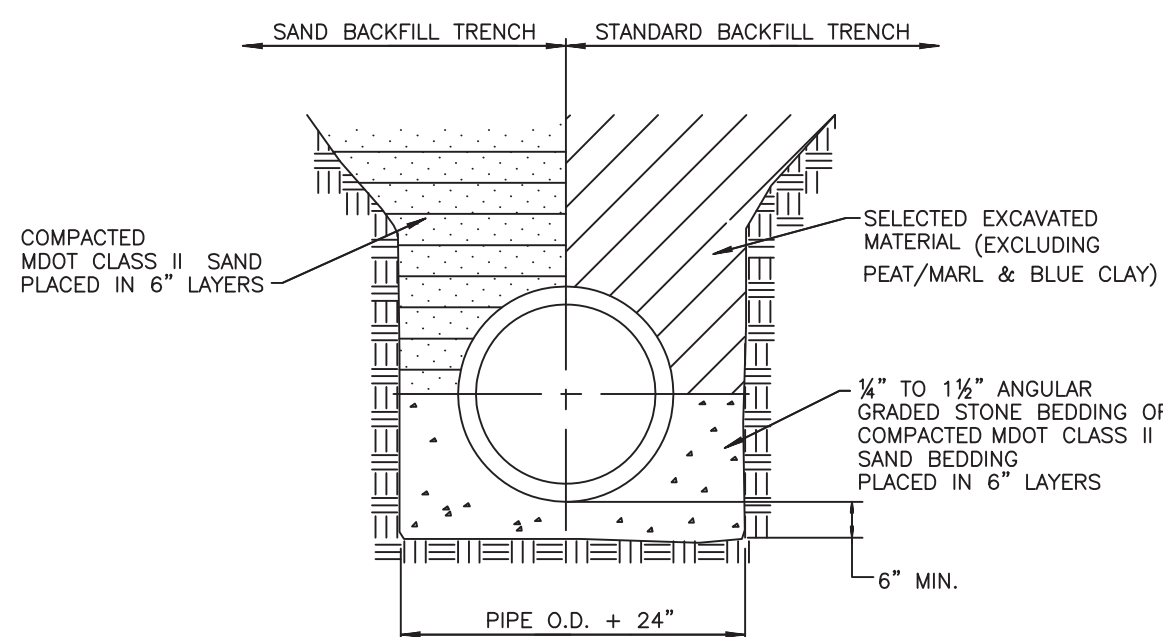
LETTERED MANHOLE COVER
FOR WRC

NO SCALE



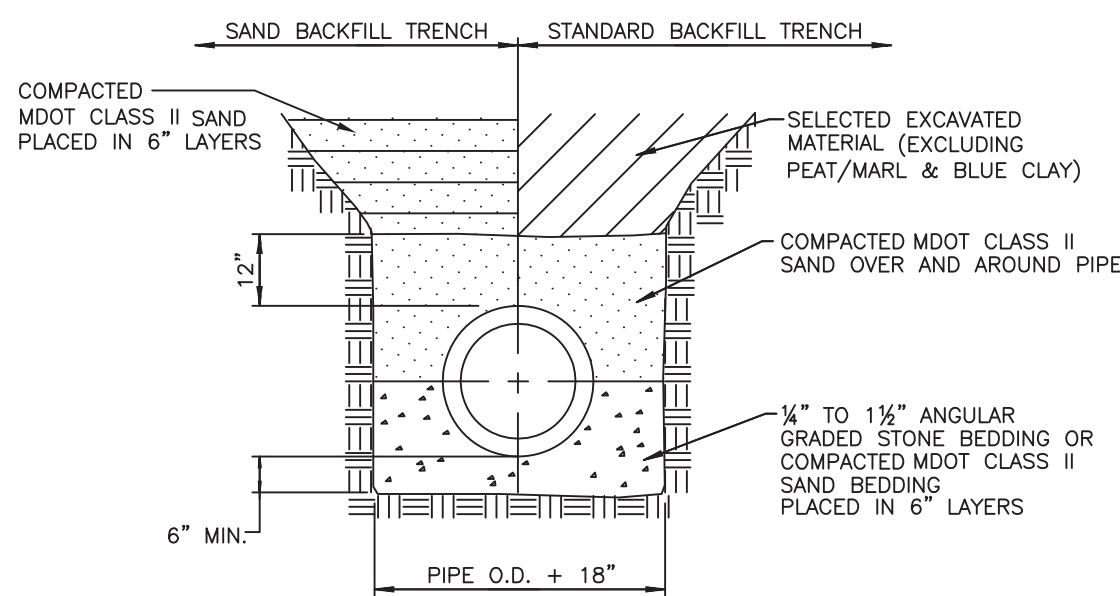
ABS (TRUSS AND SOLID WALL),
PVC (TRUSS, SOLID WALL, A2000),
ADS N-12 WT PIPE BEDDING DETAIL

NO SCALE



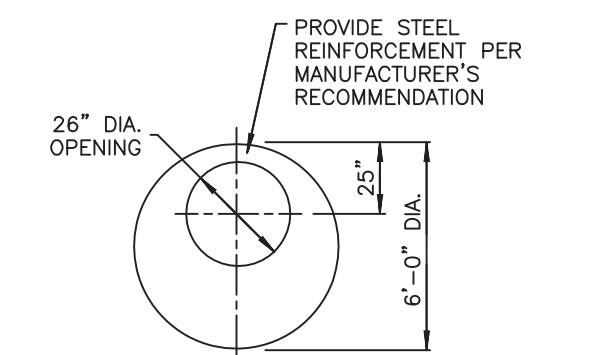
CLASS "B" BEDDING TRENCH DETAIL
FOR 27" DIAMETER AND LARGER
CONCRETE PIPE

NO SCALE



CLASS "B" BEDDING TRENCH DETAIL
FOR 24" DIAMETER AND SMALLER
CONCRETE PIPE

NO SCALE



PRECAST CONCRETE TOP
SLAB DETAIL

GENERAL NOTES

- Type and class of pipe shall be as specified on plans.
- Class "B" bedding shall be used throughout, unless otherwise specified on the plan.
- All end sections 18" and larger shall be provided with a bar screen unless otherwise approved.
- Standard rip-rap shall be 8"-15" fragmented rock, heavy rip-rap shall be 16"-24" fragmented rock. (No Broken Concrete)
- MANHOLE REQUIREMENTS:
 - All new catch basins, inlets, and manholes are to be manufactured to ASTM C-478 specifications.
 - All new catch basins, inlets, and manholes shall have WRC approved flexible, watertight seals where pipes pass through walls. Manholes shall be of precast sections with modified groove tongue and rubber gasket type joints. Pre cast manhole cone sections shall be WRC approved modified eccentric cone type.
 - Taps through manhole joints or cone sections are prohibited unless otherwise approved.
 - Manhole steps to be plastic coated steel meeting the requirements in ASTM D 2146, Type II, Grade 49108, MA. Industries P.S.I. Polypropylene, (or approved equal). Steps to be installed during manhole manufacture. Place at 16" centers 45' from centerline of sewer.
 - Cone section with modified groove tongue joints and with stud inserts cast in place. Top to have flush surface.
 - ASTM C-478 riser section with modified groove tongue joints.
 - Res-seal, link-seal, press wedge II, or kor-n-seal boot (with stainless steel korbard) flexible rubber manhole joints. (or approved equal).
 - The inside joints of manholes, catch basins, and pipe sizes over 42" and larger in diameter shall be pointed up with mortar upon completion of backfilling.
- CONCRETE PIPE REQUIREMENTS:
 - Concrete pipe to be per ASTM C76 standards.
 - It will be required to TV all pipe 30 days after installation
 - The contractor shall provide reinforced concrete pipe as specified on the plans.
 - All reinforced concrete pipe shall have modified grooved tongue joints with o-ring type rubber gasket, per A.S.T.M. specifications C443.
 - The inside joints of manholes, catch basins, and pipe sizes over 42" and larger in diameter shall be pointed up with mortar upon completion of backfilling.
- SUMP PUMP LEAD REQUIREMENTS:
 - All sump pump leads connected to a County Drain pipe shall be pre-manufactured.
 - Sump pump leads connected to a manhole shall be cored and booted. Refer to Kor-N-Tee Tap Detail.
 - Sump pump mains and leads shall be ADS (truss and solid wall), PVC (truss, solid wall , A2000), ADS N-12 WT with premium joints.
 - Ends of all 4" sump pump leads shall be temporarily capped and their location staked, witnessed and recorded.
 - All sump pump leads to be taken to the property line, easement line or as indicated on the plan.
 - Sump pump mains must have a cleanout with a minimum inside diameter of 24" and be constructed at changes of alignment, ends of sump pump mains or as indicated on the plan.
- RESTORATION REQUIREMENTS:
 - All disturbed area within the County Drain right-of-way shall be restored as follows:
 - Under roads, sidewalks, driveways and parking areas, backfill material shall be placed loosely into trenches in six (6) inch layers with each layer compacted to not less than 95% of maximum dry density as determined by the ASTM D 1557 Compaction Standard (modified proctor compaction test). All other areas shall have each layer compacted to not less than 90% of maximum dry density.
 - Finish subgrade
 - Place 3" thickness clean topsoil acceptable to the engineer to attain finished grade. Topsoil must not be contaminated and may not be a mixture of natural underlying soils, subbase materials, or other materials. It must consist of natural loam, sandy loam, silty loam or clay loam humus-bearing soil adapted to the sustenance of plant life. Topsoil must be neither excessively acidic nor excessively alkaline. It must be of mineral origin, exclusive of any peat or muck.
 - Apply seed and fertilizer as follows:*

| Location | Seeding Requirements | Fertilizer Requirement |
|-------------------------------|---|---|
| Slopes and Ditch, Banks, Etc. | M.D.O.T. "Roadside Mix" Turf Seed Mixture TGM (10% Kentucky Blue, 20% Perennial Rye, 30% Hard Fescue, 40% Creeping Red Fescue) applied at 220 lb/acre | M.D.O.T. Seeding and Sodding Fertilizers, Class A |
| Other Areas | M.D.O.T. "Roadside Mix" Turf Seed Mixture THM (30% Kentucky Blue, 20% Perennial Rye, 50% Creeping Red Fescue) applied at 220 lb/acre | M.D.O.T. Seeding and Sodding Fertilizers, Class A |

- * Sod is required in maintained lawn areas. Refer to WRC General Specifications for additional requirements and information.
- apply straw or marsh hay mulch in an air-dry condition to all seeded areas over the surface to a uniform thickness at 2 tons/acre.
- mulch shall be anchored in place with biodegradable netting, not larger than 1 1/2" by 2" nor smaller than 1/2" by 1/2".
- The contractor shall be responsible to insure the growth of all seeded areas, and shall re-seed as necessary to accomplish this.

- The Storm Drain Notes and Details Sheet shall be a supplement to WRC Standards and Specifications, which are available on the WRC website (www.oakgov.com/water/).

STORM DRAIN NOTES AND DETAILS

| REVISION BLOCK | | | |
|----------------------|------|------|--------------|
| Rev. | Rev. | Rev. | Source Date: |
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| ORIG. DATE: 05/05/97 | | | |
| SCALE: NONE | | | |
| DESIGNED BY: WRC | | | |
| DRAWN BY: Mapping | | | |



ONE PUBLIC WORKS DRIVE, BLDG 95 WEST
WATERFORD, MICHIGAN
48328-1907

SHEET NO.:

1 of 1

GENERAL NOTES

- ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE WATER RESOURCES COMMISSIONER'S OFFICE AND/OR THE LOCAL MUNICIPALITY.
- THE CONTRACTOR SHALL OBTAIN AN WATER RESOURCES COMMISSIONER'S OFFICE WATER INSPECTION PERMIT PRIOR TO THE START OF CONSTRUCTION. SEE CORRESPONDING WATER MAIN CONSTRUCTION PERMIT REQUEST LETTER FOR COST OF THE PERMIT.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION AND SHALL BE SCHEDULED BY THE LOCAL MUNICIPAL ENGINEER. THOSE IN ATTENDANCE SHALL INCLUDE 1) LOCAL MUNICIPAL ENGINEER, 2) DESIGN ENGINEER, 3) OWNER/DEVELOPER, 4) ROAD COMMISSION FOR OAKLAND COUNTY, 5) OAKLAND COUNTY WATER RESOURCES COMMISSIONER'S OFFICE (WATER, SEWER AND STORM DIVNSIONS) AND 6) ALL UTILITY COMPANIES. CONTRACTOR SHALL PROVIDE MATERIALS LISTING FOR APPROVAL BY MUNICIPAL ENGINEER AND OCWRC.
- CONTRACTOR MUST CONTACT MISS DIG (1-800-482-7171) THREE WORKING DAYS BEFORE THE START OF CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS. ALL UTILITIES SHALL BE STAKED BEFORE CONSTRUCTION STARTS.
- ALL NECESSARY EASEMENTS FOR WATER MAINS SHALL BE PROVIDED IN THE NAME OF THE OWNER OF THE WATER MAIN PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE WATER DISTRIBUTION SYSTEM FOR OPERATION.
- ALL WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF FIVE AND ONE-HALF (5-1/2) FEET BELOW FINISHED GRADES INCLUDING OPEN DRAINAGE COURSES.
- ALL TRENCHES UNDER OR WITHIN A 1:1 RATIO OF EXISTING OR PROPOSED PAVEMENT OR DRIVEWAYS SHALL BE BACKFILLED WITH THOROUGHLY COMPACTED CLASS II SAND TO GRADE AT NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT
- WHERE TWO UTILITIES CROSS, PROVIDE CLASS II BACKFILL MATERIAL IN TWELVE (12) INCH COMPACTED LAYERS TO THE UNDERSIDE OF THE HIGHER UTILITY.
- WHERE WATER MAINS MUST DIP TO PASS UNDER OTHER UTILITIES, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE KEPT TO A MINIMUM LENGTH AND SHALL BE CONSTRUCTED WITH ELEVEN AND ONE-QUARTER (11-1/4) DEGREE VERTICAL BENDS, PROPERLY ANCHORED. BENDS GREATER THAN 11-1/4° MUST HAVE ROD RESTRAINTS.
- ALL PRECAST CONCRETE GATE WELL SECTIONS SHALL BE MANUFACTURED TO CONFORM WITH A.S.T.M. C478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS, EXCEPT WALL THICKNESS SHALL BE AS SHOWN ON THESE DETAILS. ALL JOINTS FOR PRECAST CONCRETE GATE WELL SECTIONS SHALL BE "MODIFIED GROOVE TONGUE" WITH GASKET MANUFACTURED TO CONFORM WITH A.S.T.M. C 443, STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKETS.
- CONTRACTOR SHALL INSTALL VALVES, TAPPING SLEEVES AND GATE WELL STRUCTURES IN STRICT COMPLIANCE WITH MEASUREMENTS PROVIDED ON SHEET 2 (i.e. 2'-0" BETWEEN GATE WELL WALL & CENTERLINE OF OPERATING NUT) TO ALLOW PROPER OPERATION OF VALVE THROUGH GATEWELL OPENING. FAILURE TO DO SO WILL REQUIRE CONTRACTOR TO CORRECT AT HIS EXPENSE.
- ALL CROSS-CONNECTION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE LOCAL PLUMBING INSPECTOR AND IN ACCORDANCE WITH THE STANDARDS OF THE WATER RESOURCES COMMISSIONER'S OFFICE OPERATION AND MAINTENANCE DIVISION AND THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY, DIVISION OF DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION
- ALL WATER SERVICE CONNECTIONS TWO (2) INCHES AND SMALLER SHALL BE MADE BY THE WATER RESOURCES COMMISSIONER'S OFFICE, OPERATIONS AND MAINTENANCE DIVISION AFTER WATER MAIN ACCEPTANCE AND APPLICABLE TAP PERMITS ARE OBTAINED.
- ALL FITTINGS AND BENDS SHOULD BE BLOCKED IN ACCORDANCE WITH THRUST BLOCK DETAILS, UNLESS ALTERNATE THRUST RESTRAINT SYSTEM AS INDICATED IN PLANS AND SPECIFICATIONS, IS APPROVED BY WATER RESOURCES COMMISSIONER'S OFFICE AND THE LOCAL MUNICIPALITY.
- ALL STEEL AND IRON MATERIAL AND PRODUCTS FOR PERMANENT INCORPORATION INTO THE WORK SHELL MEET BUY AMERICA REQUIREMENT, FEDERAL CODE OF REGULATIONS SECTION 635.410

WATER MAIN MATERIALS NOTES

- WATER SUPPLY SYSTEM PIPING (3-INCH & LARGER) SHALL BE DUCTILE IRON OR HIGH DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE APPROVED BY THE LOCAL COMMUNITY.
- DUCTILE IRON PIPE SHALL BE CLASS 54 FOR SIZES THREE (3) INCH THROUGH EIGHTEEN (18) INCH, CLASS 55 FOR TWENTY (20) INCH, AND CLASS 56 FOR TWENTY-FOUR (24) INCH AND LARGER. (ABBREVIATED "D.I." IN DETAILS AND ON THIS SHEET).
- PIPES OF SIZES LARGER THAN TWENTY-FOUR (24) INCHES IN NOMINAL DIAMETER SHALL MEET ALL THE REQUIREMENTS OF THE CURRENT AWWA C100 FOR DUCTILE IRON WATER PIPE.
- THE DUCTILE IRON PIPE TO BE FURNISHED AND DELIVERED UNDER THIS SPECIFICATION SHALL MEET ALL THE REQUIREMENTS OF THE CURRENT AWWA C151 (ANSI A21.5), EXCEPT AS OTHERWISE SPECIFIED HEREIN. PIPE SHALL BE DOUBLE CEMENT-LINED AND SEAL COATED WITH AN APPROVED BITUMINOUS SEAL COAT IN ACCORDANCE WITH AWWA C104 (ANSI A21.4).
- REFER TO SHEET 5 FOR HDPE MATERIAL REQUIREMENTS.
- MECHANICAL AND SLIP-ON JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C111 (ANSI A21.11).
- FLANGE JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C110 (ANSI A21.10).
- FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE IRON OR CAST IRON AND SHALL MEET REQUIREMENTS OF AWWA C110 (ANSI A21.10) OR AWWA C153 (ANSI A21.53). DUCTILE IRON FITTINGS SHALL BE RATED FOR 350 PSI, PIPE SIZES TWENTY-FOUR (24) INCH DIAMETER AND LESS AND 250 PSI FOR PIPE SIZES OVER TWENTY-FOUR (24) INCH DIAMETER. DUCTILE IRON FLANGE FITTINGS SHALL BE RATED FOR 250 PSI FOR ALL PIPE DIAMETERS.
- INSTALL BRASS WEDGES AT ALL PUSH ON JOINTS IN DUCTILE IRON PIPE INSTALLATIONS. TWO (2) WEDGES PER JOINT FOR PIPES 12 INCH IN DIAMETER AND LESS, FOUR WEDGES PER JOINT FOR PIPES GREATER THAN 12 INCHES IN DIAMETER.
- ALL WATER MAINS SHALL BE DESIGNED FOR 150 PSI MINIMUM WORKING PRESSURE.
- ALL BURIED BOLTS, NUTS, AND WASHERS SHALL BE AWWA C111 LOW ALLOY STEEL COATED WITH A MINIMUM OF TWO (2) COATS OF FLUOROPOLYMER EPOXY COATING AND HEAT CURED (COR-BLUE OR APPROVED EQUAL) AND POLY-WRAPPED WHEN SPECIFIED.
- ALL BURIED BOLTS, NUTS, AND WASHERS FOR ALL FLANGED CONNECTIONS SHALL BE STAINLESS STEEL (ASTM A320, GRADE B8M) AND HAVE A NEVER SEIZE TYPE COMPOUND APPLIED TO THE THREADS PRIOR TO INSTALLATION.
- CORPORATION STOPS USED FOR INSERTION INTO MAINS SHALL BE MUELLER TYPE H-15000, FORD METER BOX FB-1000-X-Q-NL OR FORD METER BOX FB1000-4-Q-NL. ALL STOPS SHALL HAVE BRONZE CAST BODIES, KEYS, STEM WASHERS AND NUTS. INLET THREADS SHALL CONFORM TO THE LATEST VERSION OF AWWA C800.
- TEMPORARY CONNECTIONS, WHICH MAY BE MADE FOR CHLORINATING AND FLUSHING PURPOSES, SHALL INCLUDE A TESTABLE REDUCE PRESSURE ZONE (RPZ) VALVE WITH CURRENT CERTIFICATION.

VALVE AND SLEEVE NOTES

- GATE VALVES, SIZES THREE (3) INCH THROUGH SIXTEEN (16) INCH AND TAPPING VALVES SHALL BE LOCAL MUNICIPAL STANDARD AS DETAILED WITH NON-RISING STEM.
- ALL IN LINE GATE VALVES THREE (3) INCH AND LARGER SHALL BE IN WELLS AS DETAILED. SPECIFICATIONS SHALL INCLUDE THE DIRECTION OF OPERATION OF ALL VALVES.
- ALL GATE WELL COVERS SHALL BE LOCAL MUNICIPAL STANDARD AS DETAILED.
- ALL GATE VALVES WITH OPERATING NUTS AT A DISTANCE GREATER THAN FIVE (5) FEET BELOW GROUND SURFACE SHALL BE PROVIDED WITH A STAINLESS STEEL EXTENSION STEM. THE LENGTH OF THE EXTENSION STEM SHALL REACH WITHIN FIVE (5) FEET FROM THE GROUND SURFACE. WHEN AN EXTENSION STEM IS USED, IT SHALL BE HELD IN PLACE BY A STAINLESS STEEL EXTENSION STEM GUIDE SUITABLY FASTENED TO THE WALL OF THE GATE WELL. THE EXTENSION STEM SHALL BE MECHANICALLY ATTACHED TO THE OPERATING NUT. DETAILS OF THE EXTENSION SYSTEM AND THE METHOD OF INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- TAPPING VALVES SHALL BE AWWA C515 FL X MJ AS MANUFACTURED BY EJ WITH RESILIENT SEATED GATE VALVES AS APPROVED BY LOCAL MUNICIPALITY.
- TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL (BODY, FLANGE AND HARDWARE), MANUFACTURED BY ROMAC INDUSTRIES SST; JCM 432; SMITH-BLAIR 663/665 OR APPROVED EQUAL BY THE WATER RESOURCES COMMISSIONER'S OFFICE.

HYDRANT REQUIREMENTS

- ALL HYDRANTS SHALL BE CONSTRUCTED WITH A SIX (6) INCH COMPANION GATE VALVE IN A THREE (3) PIECE, ADJUSTABLE DUCTILE IRON VALVE BOX, WHICH SHALL INCLUDE A FIVE AND ONE-QUARTER (5-1/4) INCH SCREW SHAFT. VALVE BOXES SHALL BE SERIES 8860 AS MANUFACTURED BY TYLER PIPE. EJ VALVE BOX NO. 8560 OR APPROVED EQUAL.
- ALL HYDRANTS SHALL BE EJ 5BR250 TRAFFIC MODEL, OR APPROVED EQUAL WITH A MINIMUM OF 6'-0" DEPTH OF BURY UNLESS OTHERWISE INDICATED. SELF-DRAINING HYDRANTS SHALL NOT BE USED. ALL HYDRANTS SHALL BE LOCAL MUNICIPAL STANDARD AS DETAILED. HYDRANTS SHALL HAVE BREAKAWAY FLANGE.
- ALL HYDRANTS SHALL BE PAINTED RED ABOVE GROUND AND BLACK BELOW GROUND WITH A FINISH COAT OF GLAMORTEX 501 ENAMEL, COLOR 314 VERMILION OR APPROVED EQUAL. HYDRANT CAP SHALL BE PAINTED SAME COLOR AS THE HYDRANT. FOR PONTIAC: YELLOW RUST-OLEUM #7543 SAFETY YELLOW.

ACCEPTANCE OF NEW WATER MAINS

- PRIOR TO WATER MAIN ACCEPTANCE THE FOLLOWING CONDITIONS MUST BE MET:
 - PRESSURE TESTING AND BACTERIA TESTING MUST BE COMPLETED IN ACCORDANCE WITH THE WATER RESOURCES COMMISSIONER'S OFFICE REQUIREMENTS
 - ALL EASEMENT AND RIGHT-OF-WAY ACQUISITION MUST BE ACCEPTED BY THE WATER RESOURCES COMMISSIONER'S OFFICE, RIGHT-OF-WAY DIVISION
 - THE LOCAL MUNICIPALITY MUST BE PROVIDED WITH THE BILL OF SALE
 - ALL "RECORD DRAWINGS" MUST BE ACCEPTED AND APPROVED BY THE WATER RESOURCES COMMISSIONER'S OFFICE, OPERATIONS AND MAINTENANCE DIVISION. THE WATER RESOURCES COMMISSIONER'S OFFICE AND LOCAL ENGINEER MUST WITNESS THE CONNECTION OF THE WATER MAIN TO THE EXISTING WATER MAIN, AFTER WHICH RESIDENTIAL AND COMMERCIAL TAPS WILL BE ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE WATER RESOURCES COMMISSIONER'S OFFICE, OPERATIONS AND MAINTENANCE DIVISION THROUGH THE LOCAL ENGINEER FOR NEW CONSTRUCTION TAP, PRESSURE TESTING, BACTERIOLOGICAL SAMPLING, CONNECTIONS TO EXISTING WATER MAIN AND FINAL FIELD REVIEW. A SEVENTY-TWO (72) HOUR ADVANCE NOTICE IS REQUIRED.
- THE CONTRACTOR SHALL DISINFECT AND PRESSURE TEST ALL NEW WATER MAIN CONSTRUCTION PURSUANT TO THE CURRENT STANDARDS SPECIFIED BY THE WATER RESOURCES COMMISSIONER'S OFFICE.
- HYDROSTATIC TESTING FOR DUCTILE IRON WATER MAIN SHALL BE COMPLETED IN ACCORDANCE WITH ANSI/AWWA C600, SEC 5.2. THE SPECIFIED TEST PRESSURE IS 150 PSI OR 1.5 TIMES THE MAXIMUM ALLOWABLE OPERATING PRESSURE (MAOP) OF THE TEST SECTION, WHICHEVER IS GREATER. THE TEST METHOD IS GENERALLY SUMMARIZED AS FOLLOWS:
 - SLOWLY FILL PIPELINE WITH WATER, VENTING ENTRAPPED AIR AS NECESSARY.
 - REPAIR ANY VISIBLE LEAKS THAT OCCUR DURING FILLING OR AT ANY POINT DURING THE TEST.
 - GRADUALLY APPLY PRESSURE UP TO THE SPECIFIED WORKING PRESSURE USING A SUITABLE PUMP CONNECTED TO THE PIPELINE, BLEEDING TRAPPED AIR, AND ADDING WATER AS NECESSARY UNTIL A STABLE PRESSURE IS HELD.
 - HYDROSTATIC TEST BEGINS AFTER THE PIPELINE IS STABILIZED AT THE WORKING PRESSURE BY INCREASING THE PRESSURE UP TO THE SPECIFIED TEST PRESSURE AND HOLD IT WITHIN PLUS/MINUS 5 PSI FOR THE DURATION OF THE TEST, OR A MINIMUM OF TWO HOURS.
 - CAREFULLY RECORD THE AMOUNT OF MAKEUP WATER ADDED DURING THE TEST. THE HYDROSTATIC TEST PASSES IF THE AMOUNT OF MAKEUP WATER DOES NOT EXCEED THE TESTING ALLOWANCE.
 - IF THE TESTING ALLOWANCE IS EXCEEDED, LOCATE AND REPAIR ANY LEAKS AND REPEAT TEST.
- REFER TO SHEET 5 FOR HYDROSTATIC TESTING REQUIREMENTS FOR HDPE PIPE.
- PRESSURE TESTING AGAINST VALVES PHYSICALLY CONNECTED TO AN EXISTING WATER SUPPLY SYSTEM IS STRICTLY PROHIBITED.
- WHERE CONTRACTOR SUPPLIED GAUGES ARE REQUIRED, MINIMUM SIZE SHALL BE 3/4" DIAMETER OR LARGER GRADUATED IN ONE (1) OR TWO (2) POUND INCREMENTS FROM 1 TO 160 P.S.I. OR HIGHER.
- PRESSURE TESTING AND BACTERIA TESTING MUST BE SUCCESSFULLY COMPLETED PRIOR TO CONNECTING TO THE EXISTING WATER SUPPLY SYSTEM.

WATER RESOURCES COMMISSIONER
WATER SYSTEM STANDARDS –
GATE VALVES

| COMMUNITY | DIRECTION TO OPEN | VALVE TYPE | |
|----------------------|----------------------|-----------------|---------------|
| | | STD. GATE VALVE | TAPPING VALVE |
| BINGHAM FARMS | RIGHT | C515 | C515 |
| BLOOMFIELD HILLS | RIGHT | C515 | C515 |
| COMMERCE TOWNSHIP | LEFT | C515 | C515 |
| FARMINGTON HILLS | RIGHT | C515 | C515 |
| HIGHLAND TOWNSHIP | LEFT | C515 | C515 |
| KEEGO HARBOR | RIGHT | C515 | C515 |
| OAKLAND TOWNSHIP | LEFT | C515 | C515 |
| ORCHARD LAKE VILLAGE | LEFT | C515 | C515 |
| OXFORD TOWNSHIP | LEFT | C515 | C515 |
| PONTIAC | LEFT | C515 | C515 |
| ROYAL OAK TOWNSHIP | RIGHT | C515 | C515 |
| SPRINGFIELD TOWNSHIP | LEFT | C515 | C515 |
| WALLED LAKE | LEFT | C515 | C515 |

1.) C515 RESILIENT SEATED GATE VALVE – MANUFACTURED BY U.S. PIPE, MUELLER, EAST JORDAN IRON WORKS, AMERICAN FLOW CONTROL OR APPROVED EQUAL.

FIRE HYDRANT NOZZLE SIZE AND
THREAD SPECIFICATIONS

| CVT | PUMPER NOZZLE | HOSE NOZZLE | OPERATING NUT | DEPTH OF BURY | STYLE | MODEL # |
|---------------------------------|------------------------------------|------------------|---------------|---------------|--------|---------|
| BINGHAM FARMS | (1) – 3-3/4"-DFD | (2) – 2-1/2"-DFD | 1-1/8" | 5'-6" | 5BR250 | 54826D |
| BLOOMFIELD HILLS | (1) – 3-3/4"-DFD | (2) – 2-1/2"-DFD | 1-1/8" | 6'-0" | 5BR250 | 55825D |
| COMMERCE TWP/ WOLVERINE LAKE | (1) – 5"-STORZ | (2) – 2-1/2"-NST | 1-1/2" | 5'-6" | 5BR250 | 54913D |
| FARMINGTON HILLS | (1) – 3-3/4"-DFD | (2) – 2-1/2"-NST | 1-1/8" | 5'-6" | 5BR250 | 54329D |
| HIGHLAND TWP | (1) – 5"-STORZ | (2) – 2-1/2"-NST | 1-1/2" | 5'-6" | 5BR250 | 54913D |
| KEEGO HARBOR | (1) – 3-3/4"-DFD | (2) – 2-1/2"-DFD | 1-1/8" | 5'-6" | 5BR250 | 54826D |
| OAKLAND TWP | (1) – 4"-STORZ | (2) – 2-1/2"-DFD | 1-1/2" | 5'-6" | 5BR250 | 54831D |
| ORCHARD LAKE | (1) – 3-3/4"-DFD | (2) – 2-1/2"-DFD | 1-1/8" | 6'-0" | 5BR250 | 55825D |
| OXFORD TWP | (1) – 5"-STORZ (1) – 4-1/2"-NST | | 1-1/2" | 6'-0" | 5BR250 | 55601D |
| PONTIAC | (1) – 3-3/4"-DFD | (2) – 2-1/2"-DFD | 1-1/2" | 6'-0" | 5BR250 | 55822D |
| ROYAL OAK TWP | (1) – 3-3/4"-DFD | (2) – 2-1/2"-NST | 1-1/8" | 5'-6" | 5BR250 | 54329D |
| SPRINGFIELD TWP | (1) – 5"-STORZ | (2) – 2-1/2"-NST | 1-1/2" | 5'-6" | 5BR250 | 54913D |
| WALLED LAKE | (1) – 4-1/2"-NST | (2) – 2-1/2"-NST | 1-1/8" | 5'-6" | 5BR250 | 54534D |

- D.F.D. – DETROIT FIRE DEPARTMENT THREAD
- N.S.T. – NATIONAL STANDARD THREAD
- STORZ NOZZLES SHALL BE COMPATIBLE WITH STORZ COUPLED LARGE DIAMETER FIRE HOSE. NOZZLES SHOULD BE MADE OF "LEAD FREE" BRASS OR ALUMINUM, AS APPROVED BY LOCAL CITY, VILLAGE OR TOWNSHIP. THE NOZZLE SHALL BE AN INTEGRAL PART OF THE HYDRANT, RESISTANT TO TAMPER AND REMOVAL. ENGAGEMENT LUGS SHALL BE ON THE NOZZLE AND CAP TO PREVENT FAILURE UNDER HIGH PRESSURE. NOZZLE AND CAP SHALL MEET AWWA C502 SPECIFICATIONS. NOZZLE SHALL BE COMPATIBLE WITH HOSE LOCK TO PREVENT HOSE FROM DISCONNECTING WHILE IN USE.

WATER RESOURCES COMMISSIONER'S OFFICE
WATER SYSTEMS OPERATIONS AND MAINTENANCE DIVISION
RECORD DRAWING SPECIFICATIONS

IN AREAS WHERE WATER SYSTEMS ARE OPERATED AND MAINTAINED BY THE WATER RESOURCES COMMISSIONER'S OFFICE, OPERATIONS AND MAINTENANCE DIVISION, FINAL ACCEPTANCE OF THE WATER SYSTEM MUST BE RENDERED BY THE WATER RESOURCES COMMISSIONER'S OFFICE, OPERATIONS AND MAINTENANCE DIVISION, BEFORE THE SYSTEM CAN BE USED FOR THE SERVICE INTENDED.

ONE ITEM REQUIRED FOR FINAL ACCEPTANCE SHALL BE THE SUBMISSION OF RECORD DRAWINGS TO THE WATER RESOURCES COMMISSIONER, OPERATIONS AND MAINTENANCE DIVISION, BY THE DESIGN ENGINEER. RECORD DRAWINGS SHALL BE DEFINED AS AND CONTAIN THE FOLLOWING INFORMATION:

- THE DESIGN ENGINEER SHALL FURNISH "RECORD DRAWINGS" WATER MAIN PLANS UPON JOB COMPLETION. "RECORD DRAWINGS" SHALL BE FORWARDED TO THE WATER RESOURCES COMMISSIONER BY THE LOCAL MUNICIPAL ENGINEER AFTER THEIR REVIEW AND APPROVAL.
- THE COVER SHEET SHALL BE SIGNED AND SEALED BY THE PROJECT DESIGN ENGINEER AND INCLUDE THE FOLLOWING CERTIFICATION STATEMENT:

HEREBY CERTIFY THAT OUR FIRM HAS PREPARED THESE RECORD DRAWINGS OF THE IMPROVEMENTS AS CONSTRUCTED, AND THAT TO THE BEST OF MY KNOWLEDGE THOSE IMPROVEMENTS NOTED AS "RECORD DRAWINGS" WERE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS; AND ALSO THAT THE WATER MAIN AND STRUCTURES, AS CONSTRUCTED, LIE WITHIN THE EASEMENT DESCRIPTIONS REQUIRED BY THE WATER RESOURCES COMMISSIONER'S OFFICE.

(COMPANY NAME)

(ENGINEER'S SIGNATURE)

PROFESSIONAL ENGINEER NO. _____

ENGINEER SEAL

- THE MINIMUM SCALE SHALL BE ONE (1) INCH EQUALS FIFTY (50) FEET.
- THE SIZE, LENGTH, CLASS AND MANUFACTURER OF PIPE INSTALLED SHALL BE INDICATED.
- THE SIZE, BRAND AND MODEL NUMBERS OF ALL VALVES AND HYDRANTS INSTALLED SHALL BE INDICATED.
- A TOTAL RECORD DRAWING QUANTITY LIST SHALL BE INCLUDED, AS WELL AS A RECORD DRAWING QUANTITY LIST ON EACH INDIVIDUAL SHEET.
- THE LOCATIONS SHALL BE SHOWN ON THE PLANS WITH AN ACCURACY OF ONE (1) FOOT.
- THE OFFSET OF THE WATER MAIN FROM PROPERTY LINES SHALL BE INDICATED.
- ALL GATE VALVE WELLS, HYDRANTS AND ALL WATER SYSTEM APPURTENANCES SHALL BE LOCATED FROM THE NEAREST PROPERTY CORNER.
- ALL UNDERGROUND APPURTENANCES, SUCH AS GATE VALVE WELLS, METER PITS, PRESSURE REDUCING VALVE PITS, ETC. SHALL BE LOCATED FROM THE NEAREST HYDRANT THAT IS CONNECTED TO THE SAME WATER MAIN AS THE APPURTENANCE.
- THE LOCATION, SIZE, BRAND AND MODEL NUMBER OF EVERY RESTRAINED JOINT SHALL BE NOTED.
- THE ACCURATE LOCATION OF ALL UTILITY CROSSINGS WHERE THE RECOMMENDED SEPARATION, VERTICALLY OR HORIZONTALLY, IS LESS THAN THE TEN STATE STANDARDS SHALL BE NOTED.
- WATER MAINS 12" AND LARGER IN DIAMETER SHALL BE DRAWN IN PROFILE VIEW IN ADDITION TO PLAN VIEW ON THE CONSTRUCTION PLANS.

WATER MAIN
STANDARD DETAILS

REVISION BLOCK

Date Source / Source Date: N/A

Rev. No.: By: Rev. Date: Description:

1 DL 03/23/15 FINAL CHANGES TO GATE VALVE STANDARDS, HYDRANT SPECIFICATIONS AND PIPE CLASS UPDATES

2 DL 01/03/17 UPDATE DIRECTION TO OPEN COMMERCE TOWNSHIP FROM RIGHT TO LEFT

3 KB 02/14/18 MARKUPS PER G. APPEL


4 WRC 08/12/20 GENERAL UPDATE

ORIG. DATE: 01/01/01

SCALE: NONE

DESIGNED BY: WRC

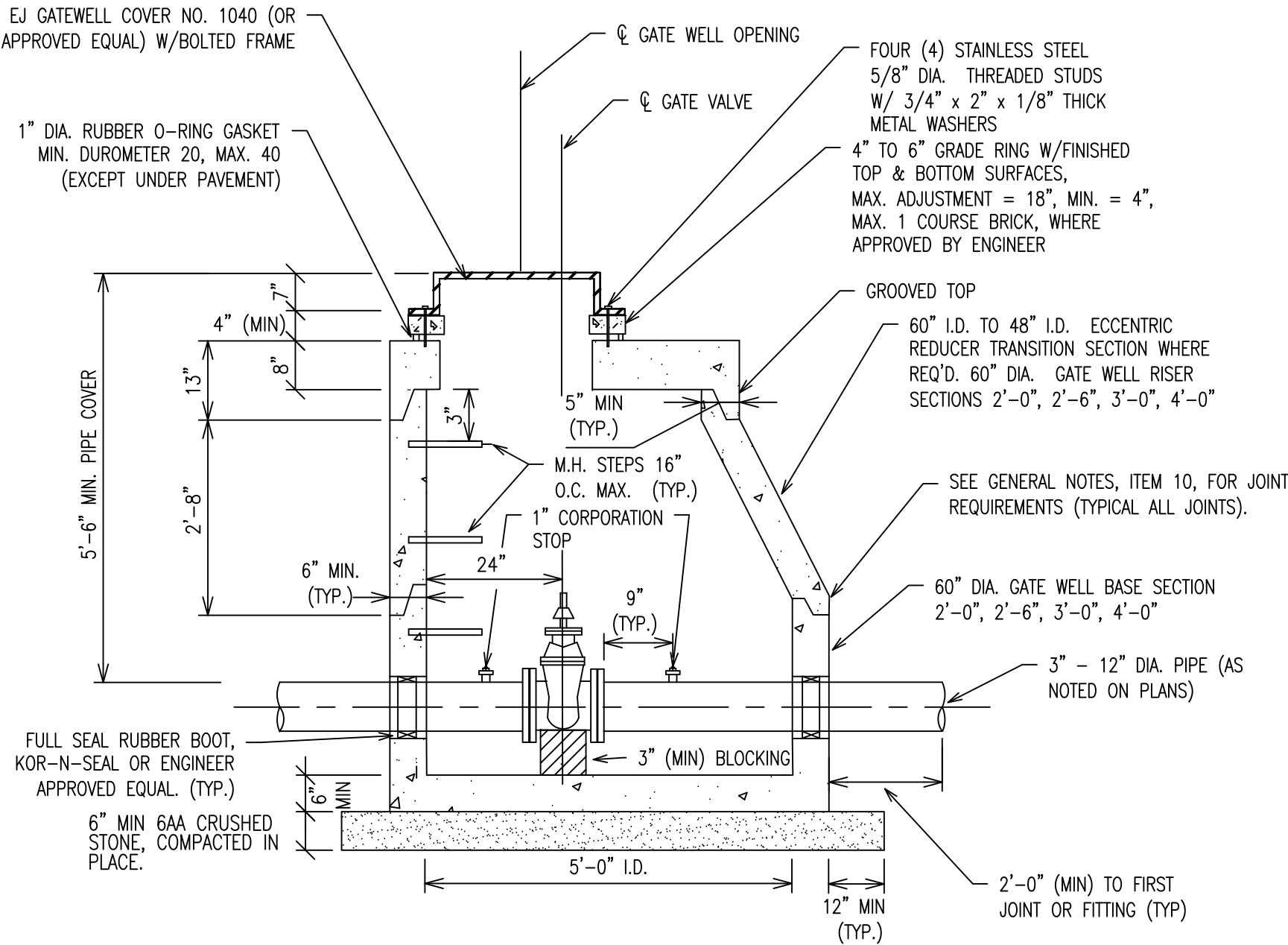
DRAWN BY: WRC Mapping

WATER RESOURCES COMMISSIONER
Jim Nash

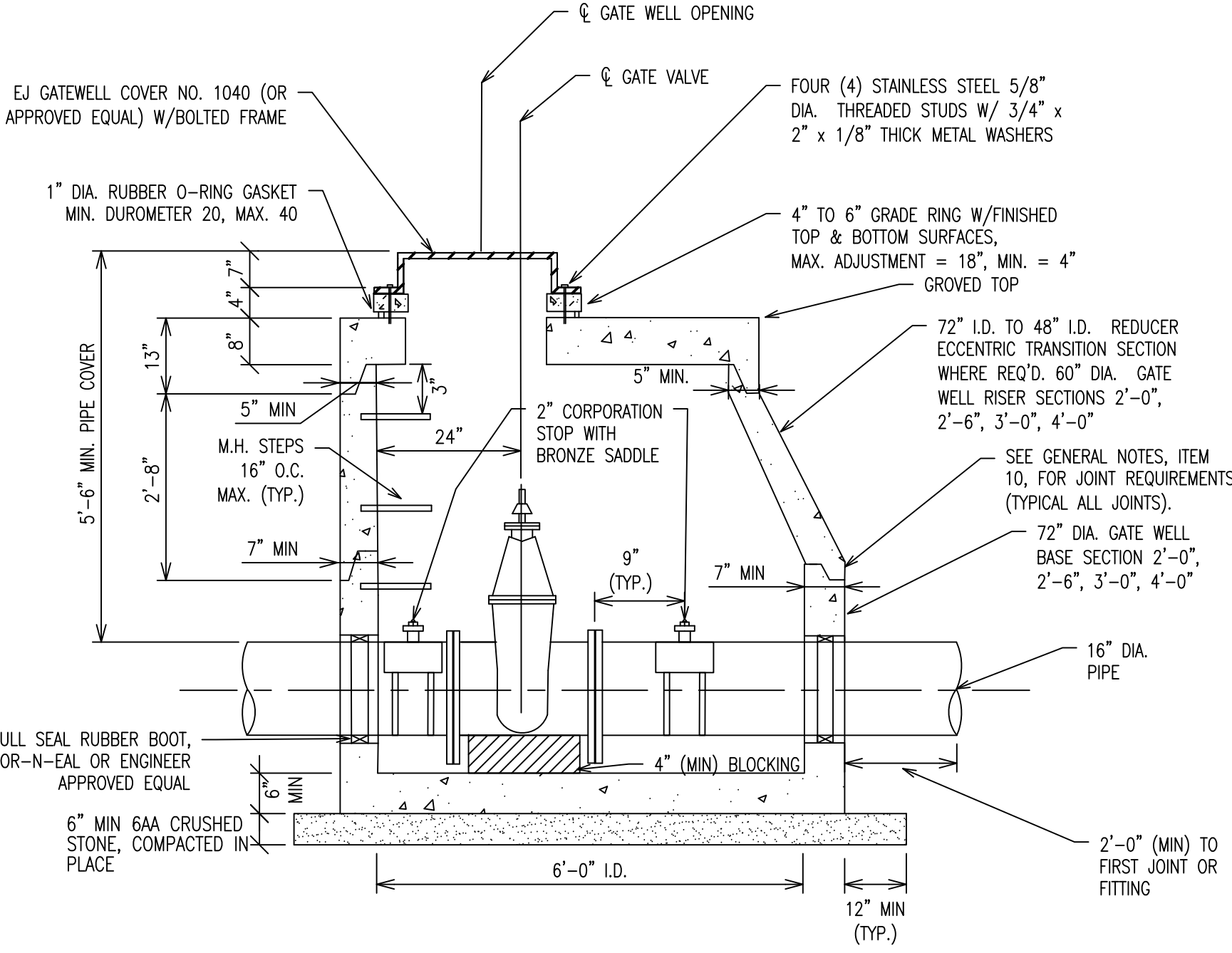
ONE PUBLIC WORKS DRIVE, BLDG 95 WEST
WATERFORD, MICHIGAN
48329-1907

SHEET NO.: 1 of 7

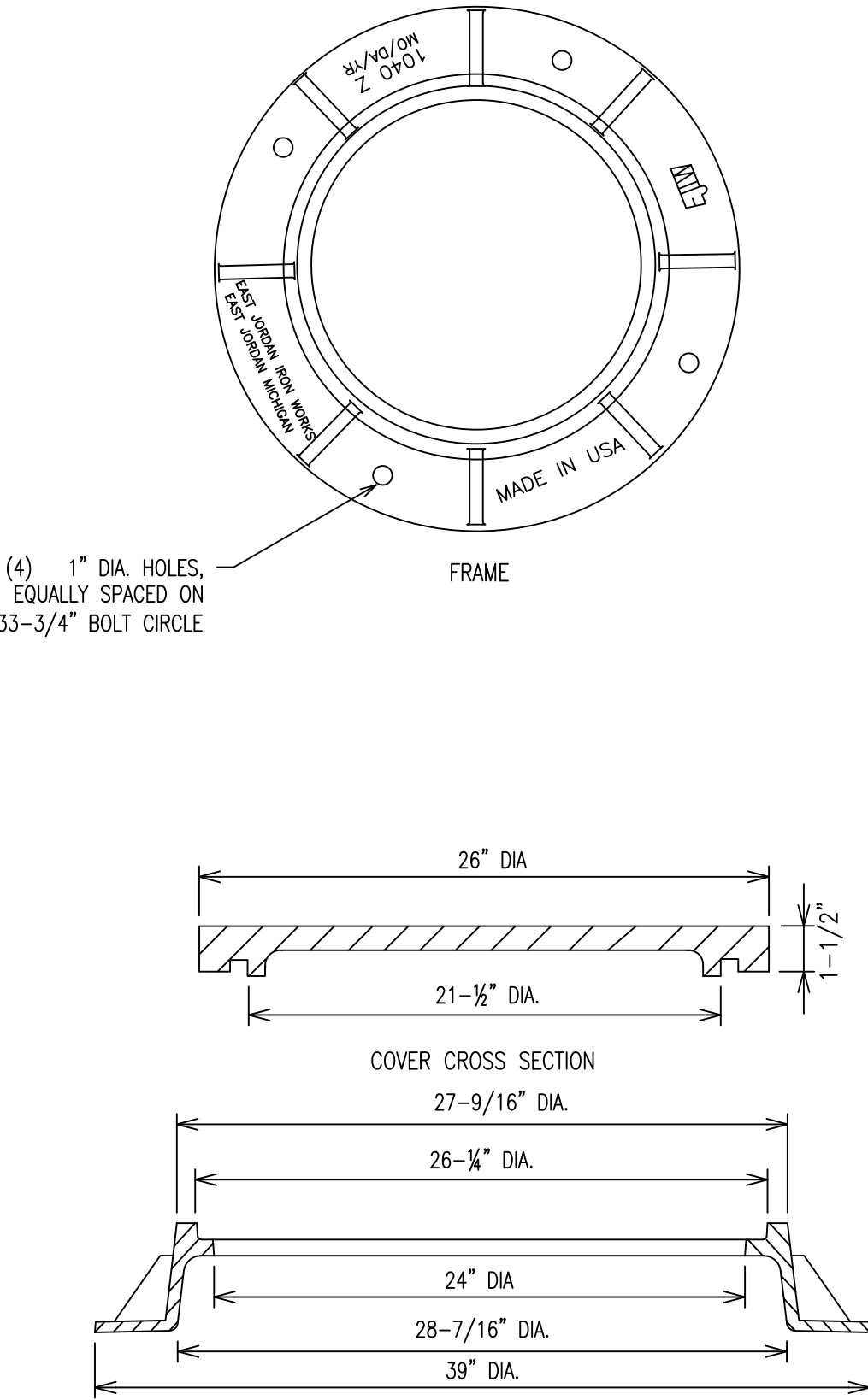
GATE VALVE & WELL DETAILS



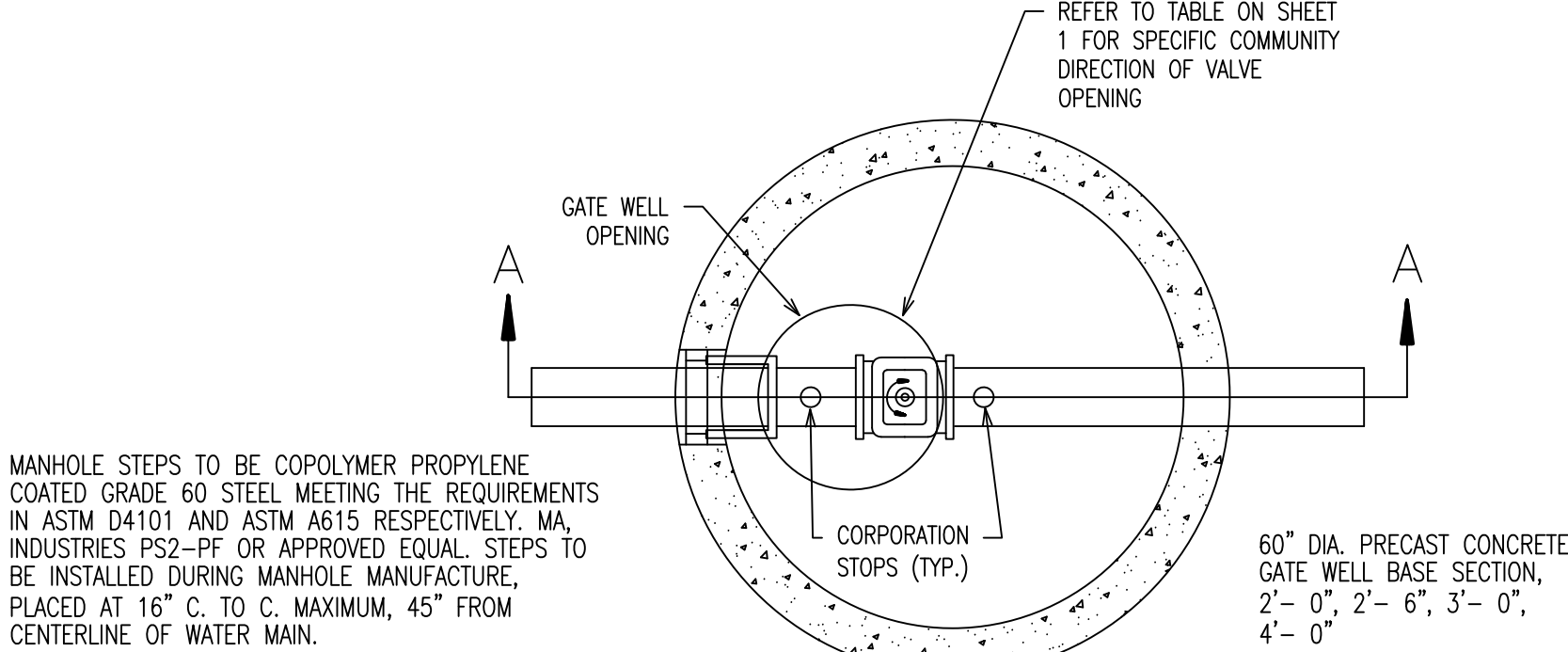
3" THRU 12" GATE WELL



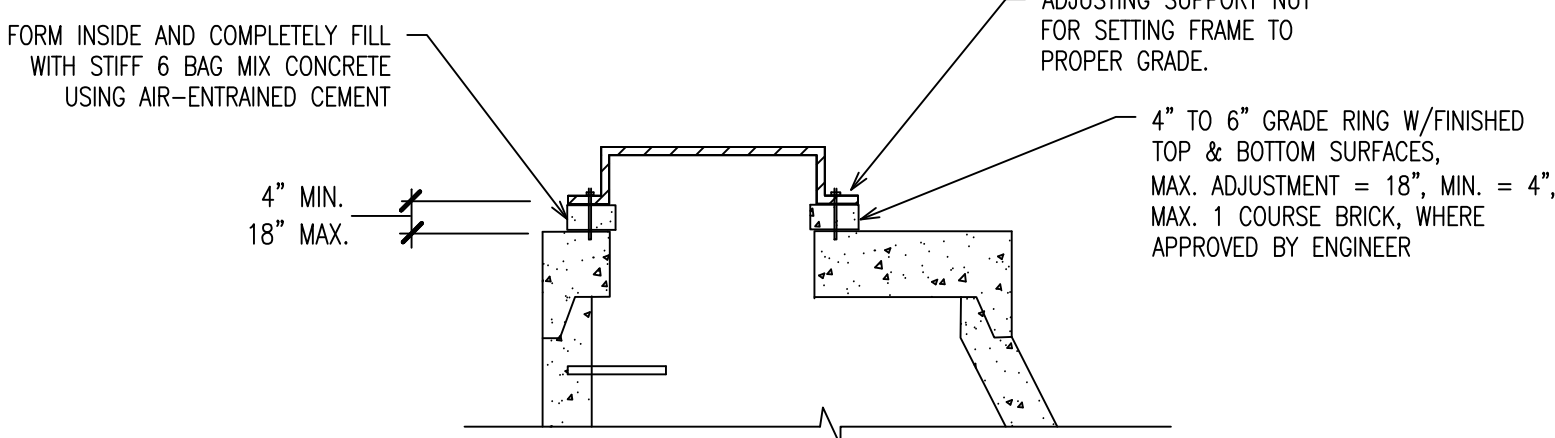
16" GATE WELL



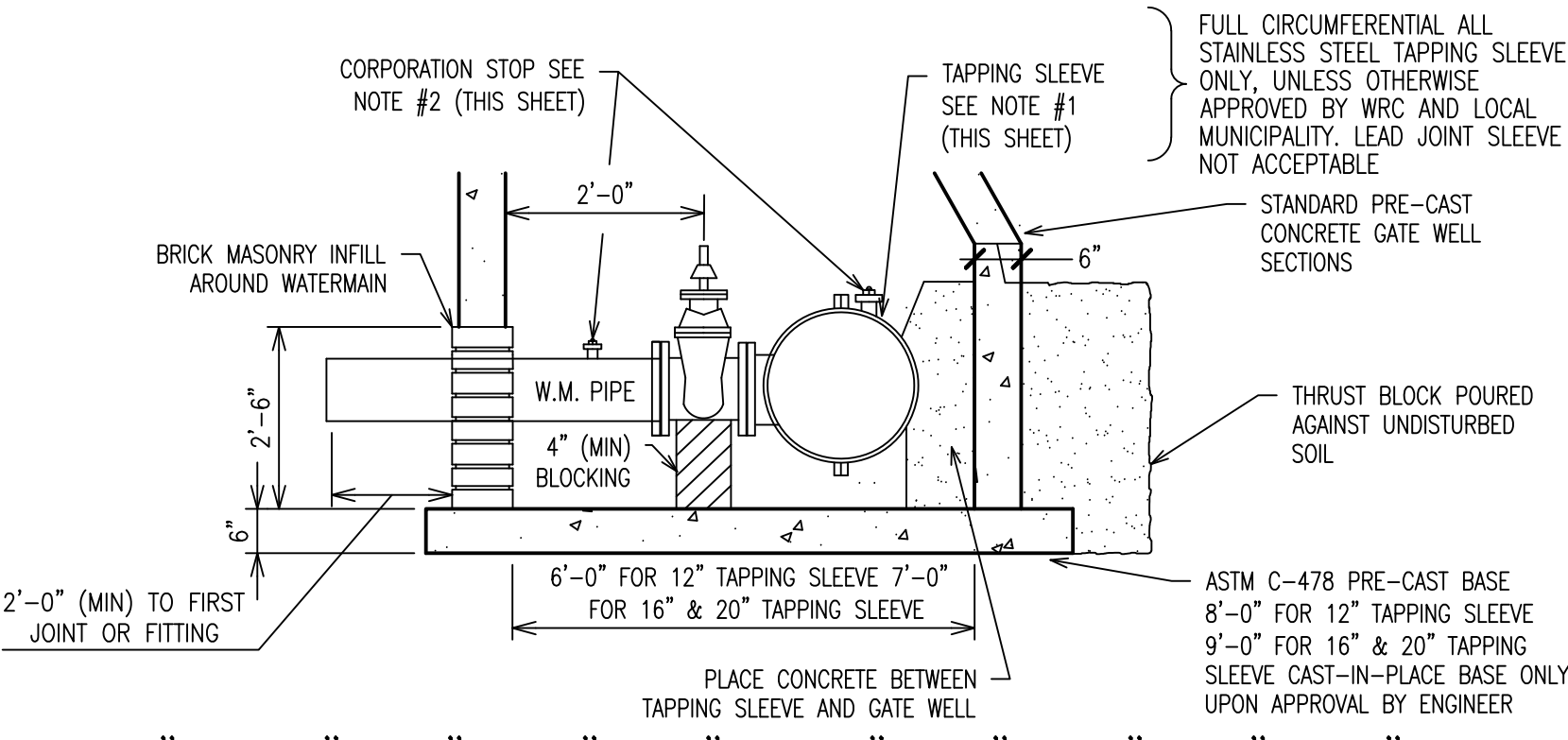
FRAME



PLAN GATE WELL TYPICAL



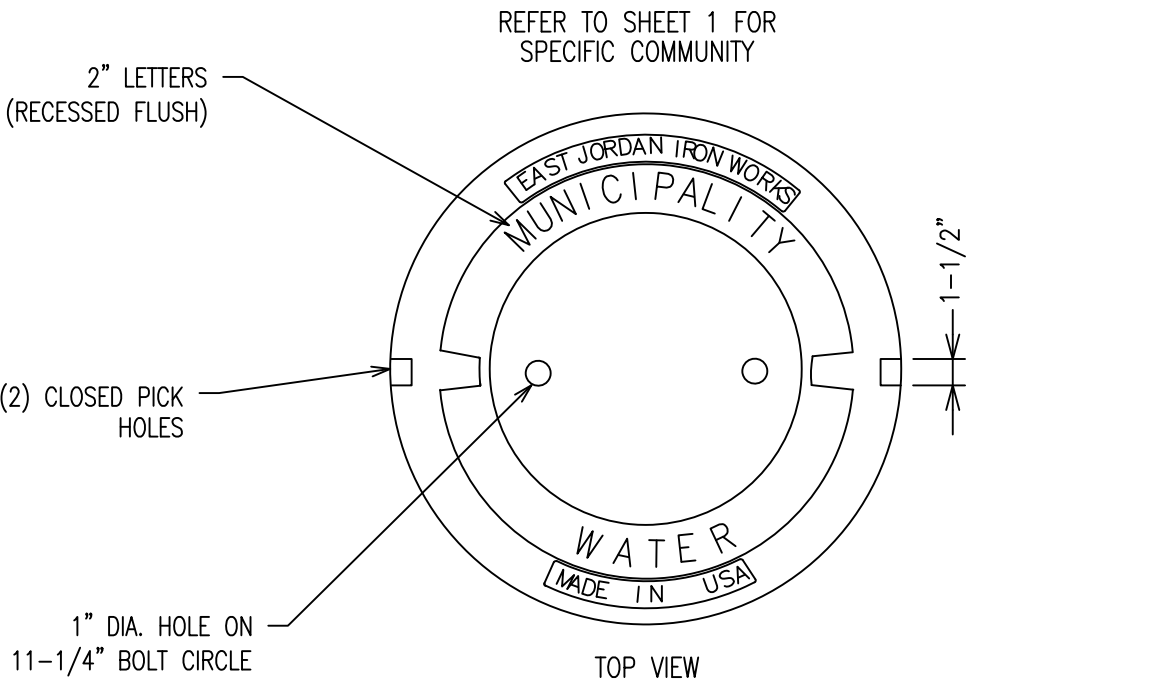
GATE WELL TOPS WITHIN PAVEMENT AREAS



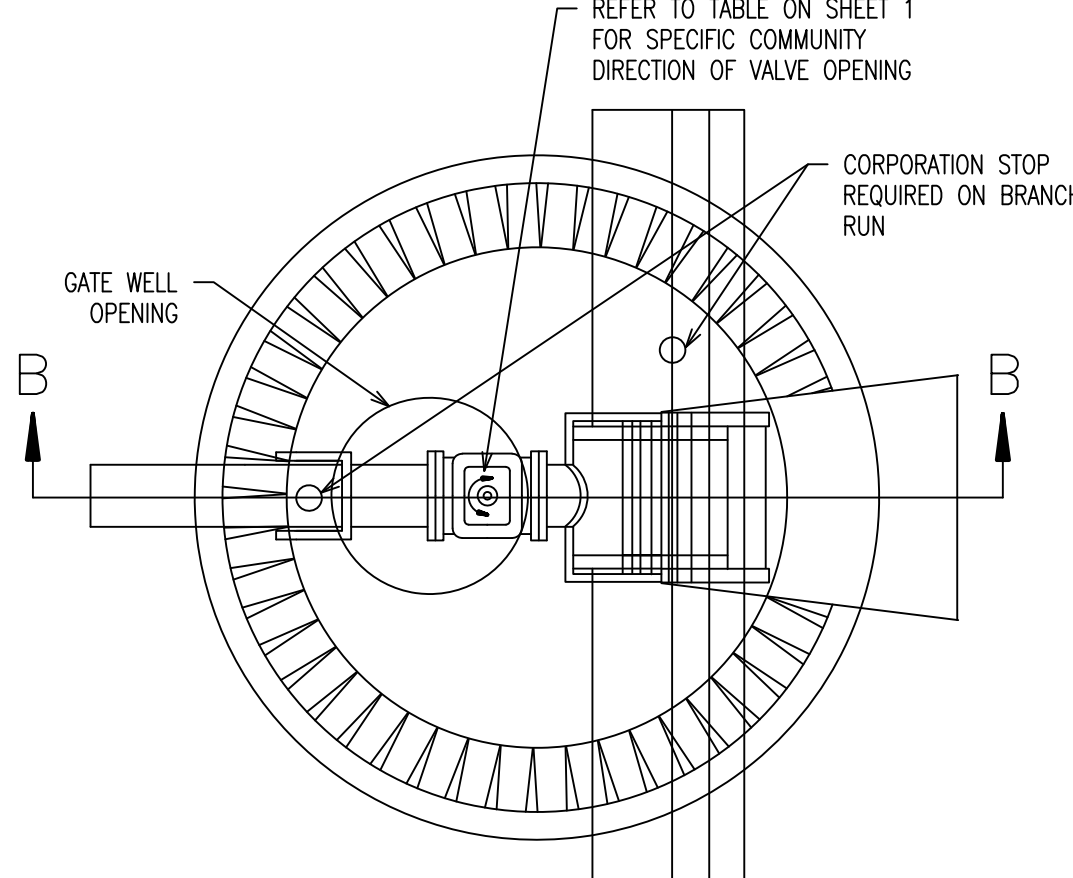
20" x 12", 20" x 8", 16" x 12", 16" x 8", 12" x 8"

TAPPING SLEEVE, VALVE & WELL

- NOTES:
1. REFER TO NOTE 7 OF "VALVE AND SLEEVE NOTES" ON SHEET 1.
 2. FOR PIPE SMALLER THAN 16" USE 1" CORPORATION STOP, FOR 16" PIPE OR LARGER USE 2" CORPORATION STOP WITH BRONZE SADDLE.
 3. WRC DOES NOT RECOMMEND SIZE ON SIZE TAPPING.




LETTERING LAYOUT FOR GATEWELL COVERS



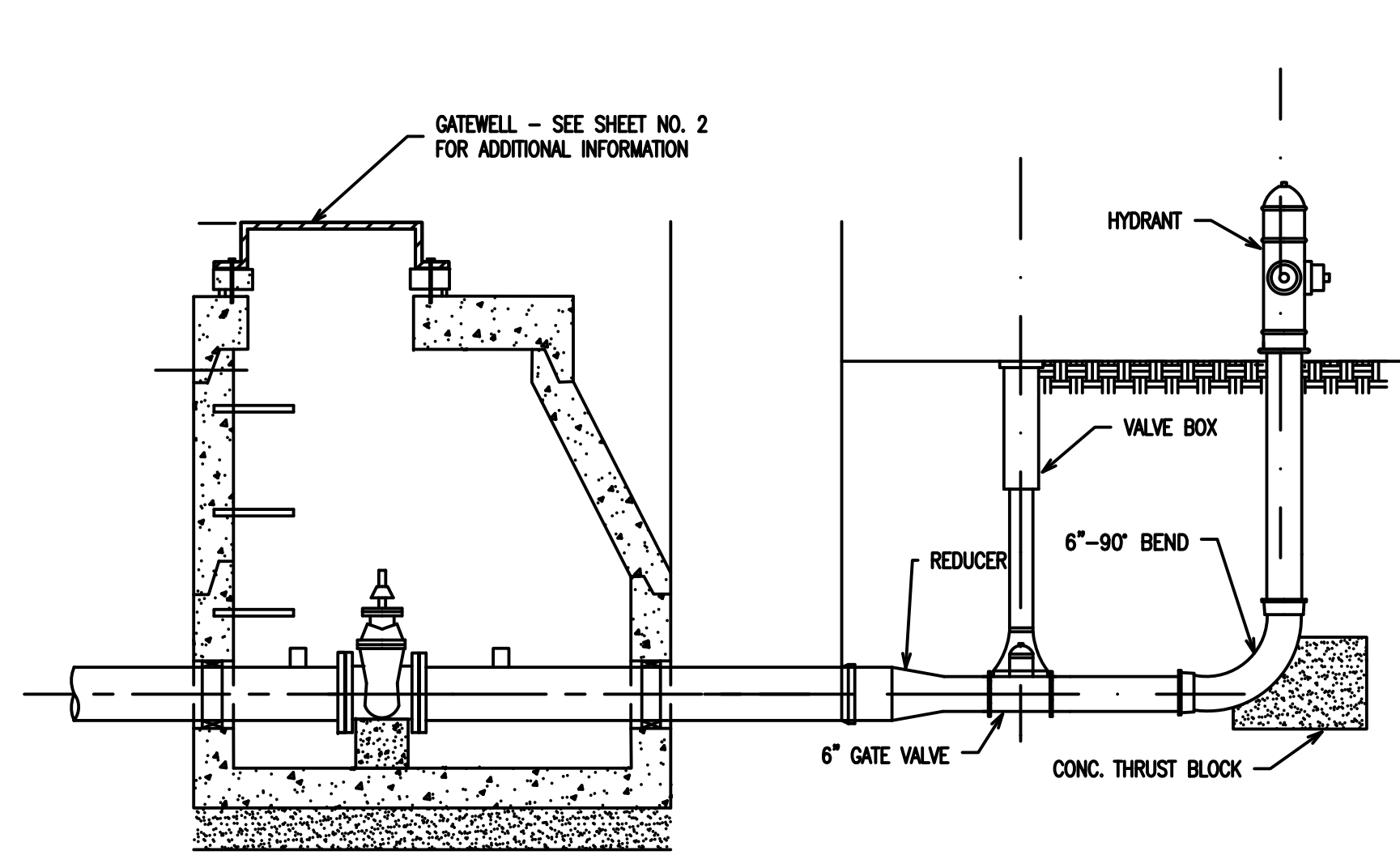
PLAN TAPPING SLEEVE

VALVE & WELL (TYPICAL)

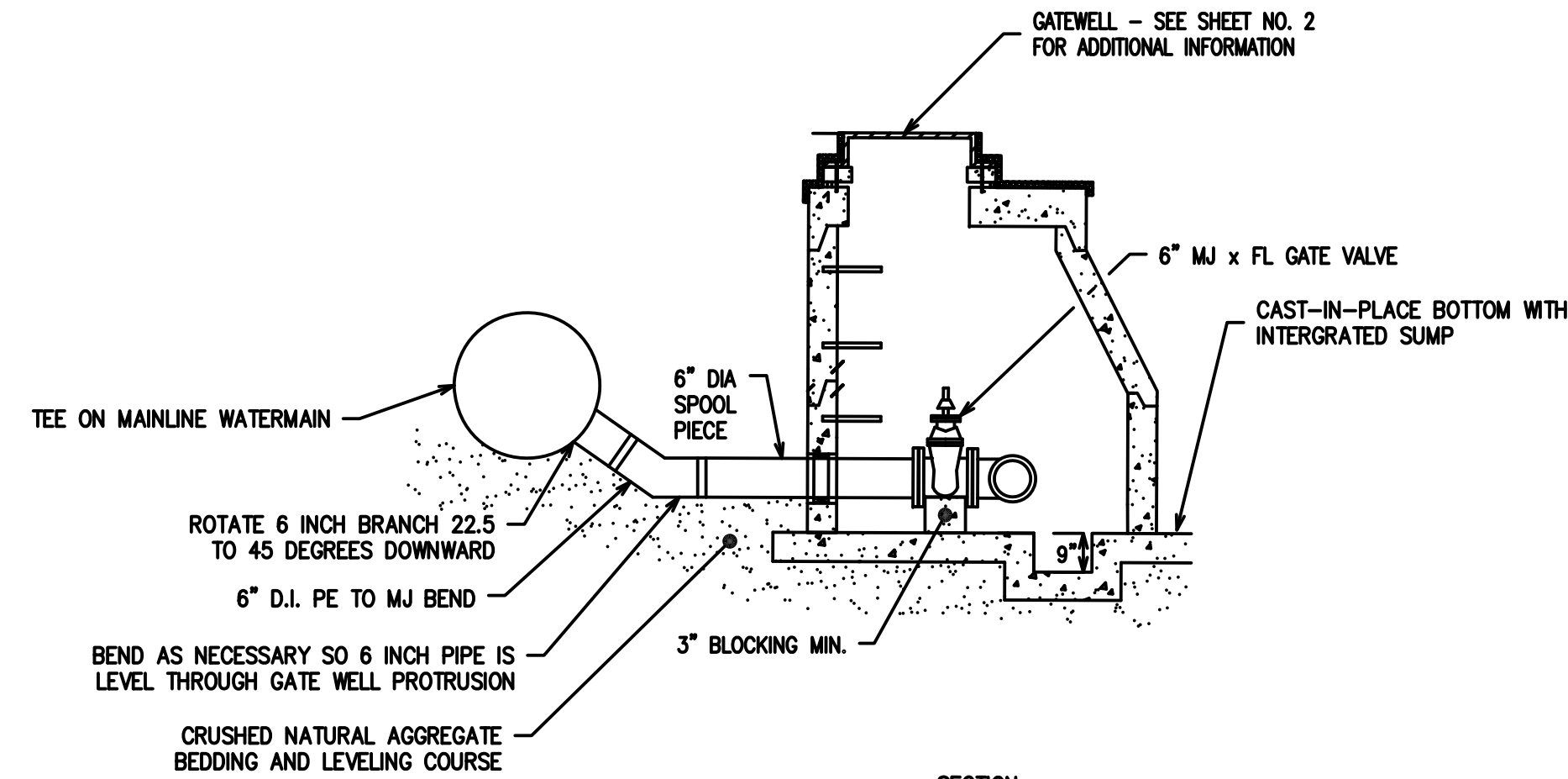
| REVISION BLOCK | | | |
|----------------|-----|----------|--|
| Rev. | By. | Date | Description |
| 1 | DL | 03/23/15 | FINAL CHANGES TO GATE VALVE STANDARDS, HYDRANT SPECIFICATIONS AND PIPE CLASS UPDATES |
| 2 | DL | 01/03/17 | UPDATE TO CORRECTION TO OPEN COMMERCE TOWNSHIP FROM RIGHT TO LEFT |
| 3 | DL | 07/14/18 | MANHOLE PER O. APPROV. |
| 4 | HRC | 08/12/20 | GENERAL UPDATE |

| ORIG. DATE: 01/01/01 | | ONE PUBLIC WORKS DRIVE, BLDG 96 WEST WATERFORD, MICHIGAN 48328-1907 | |
|-----------------------|-----|--|--|
| SCALE: NONE | WRC |  WATER RESOURCES COMMISSIONER Jim Nash | |
| DRAWN BY: WRC Mapping | | | |

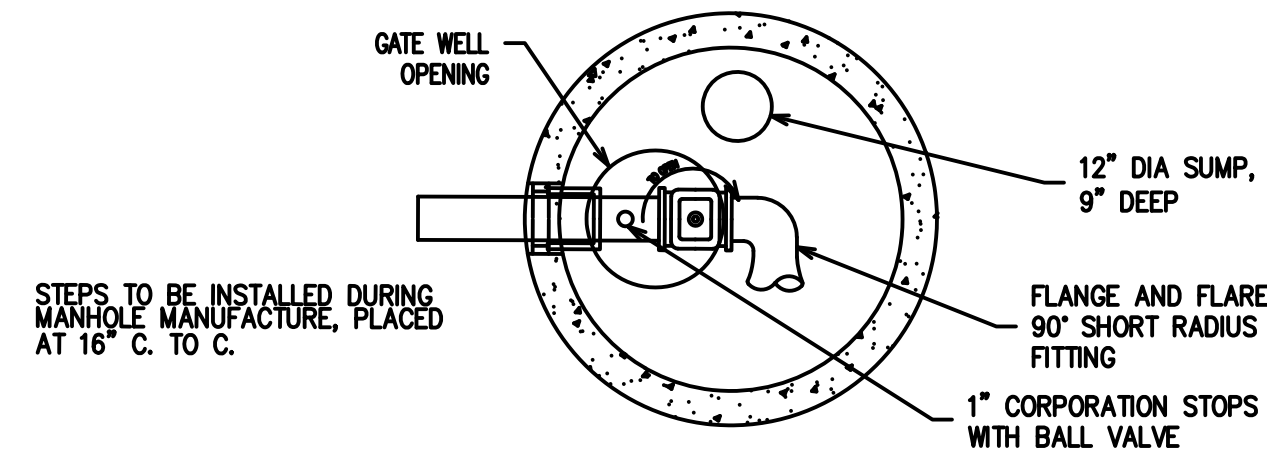
| SHEET NO.: 2 of 7 | |
|-------------------|--|
| | |



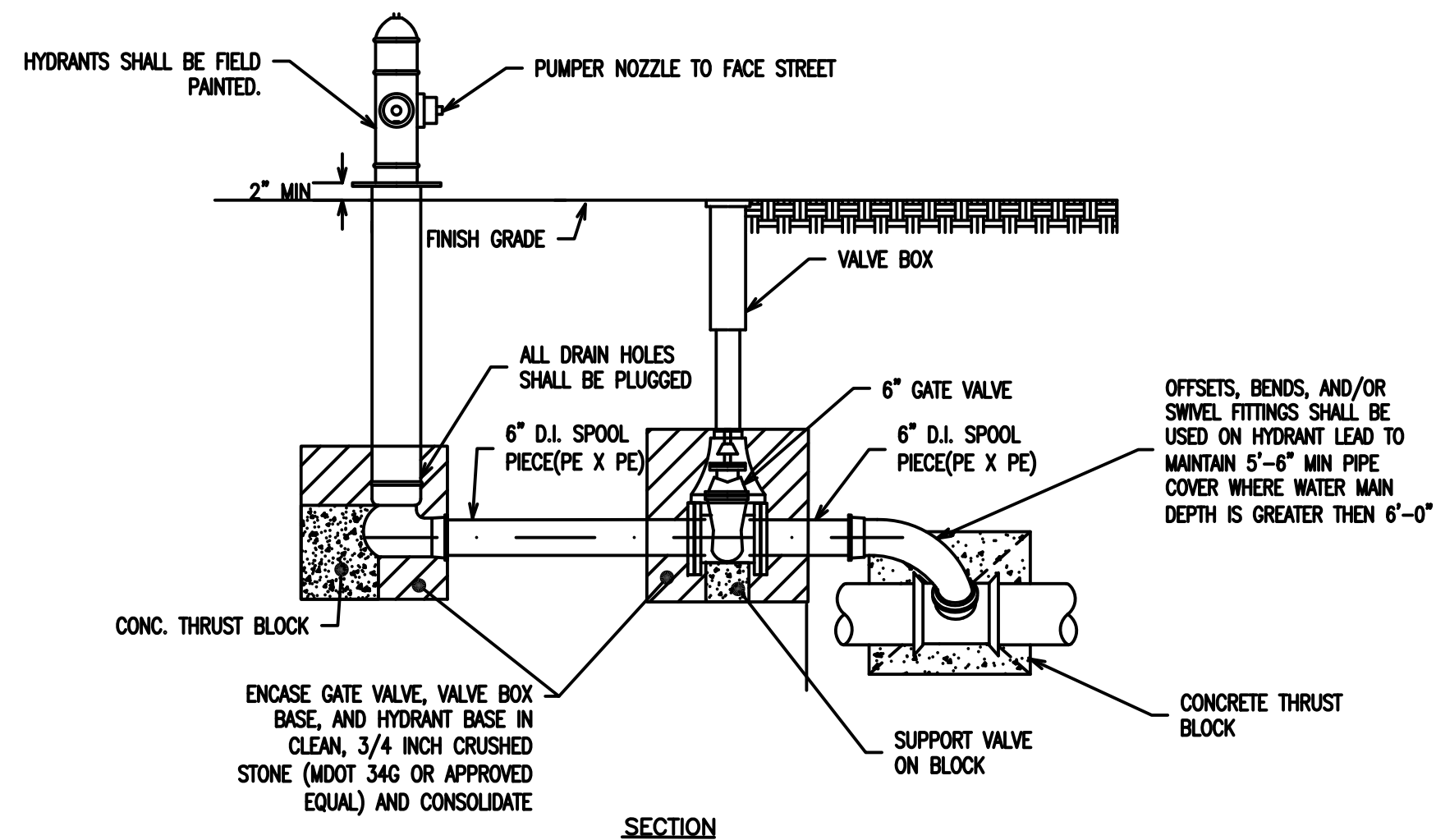
DEAD END BLOWOFF CONNECTION



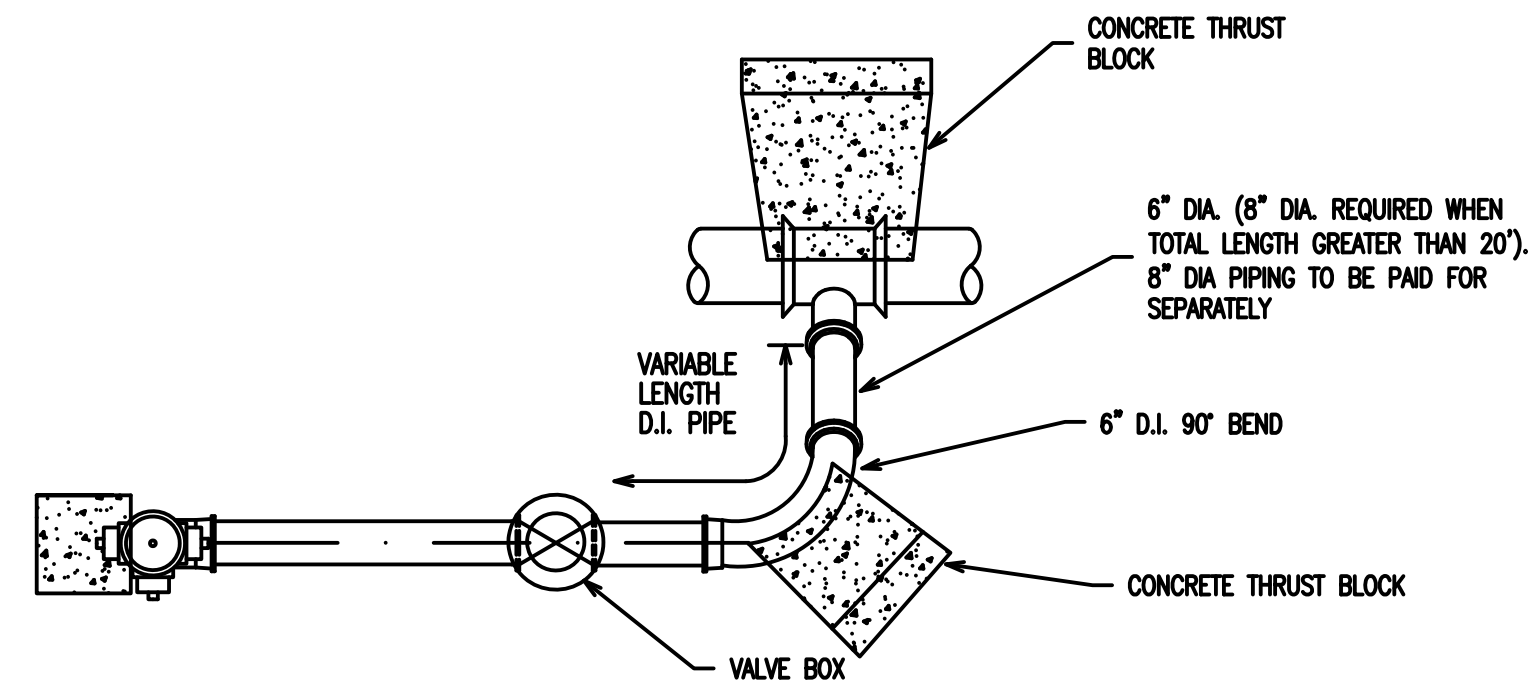
SECTION



BLOW-OFF VALVE AND WELL



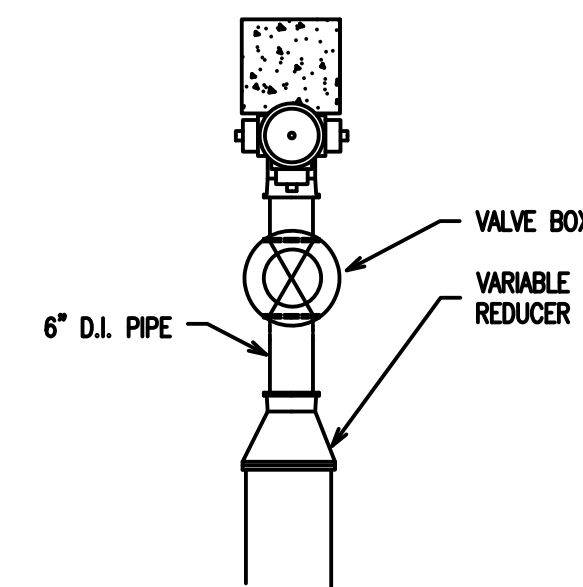
SECTION



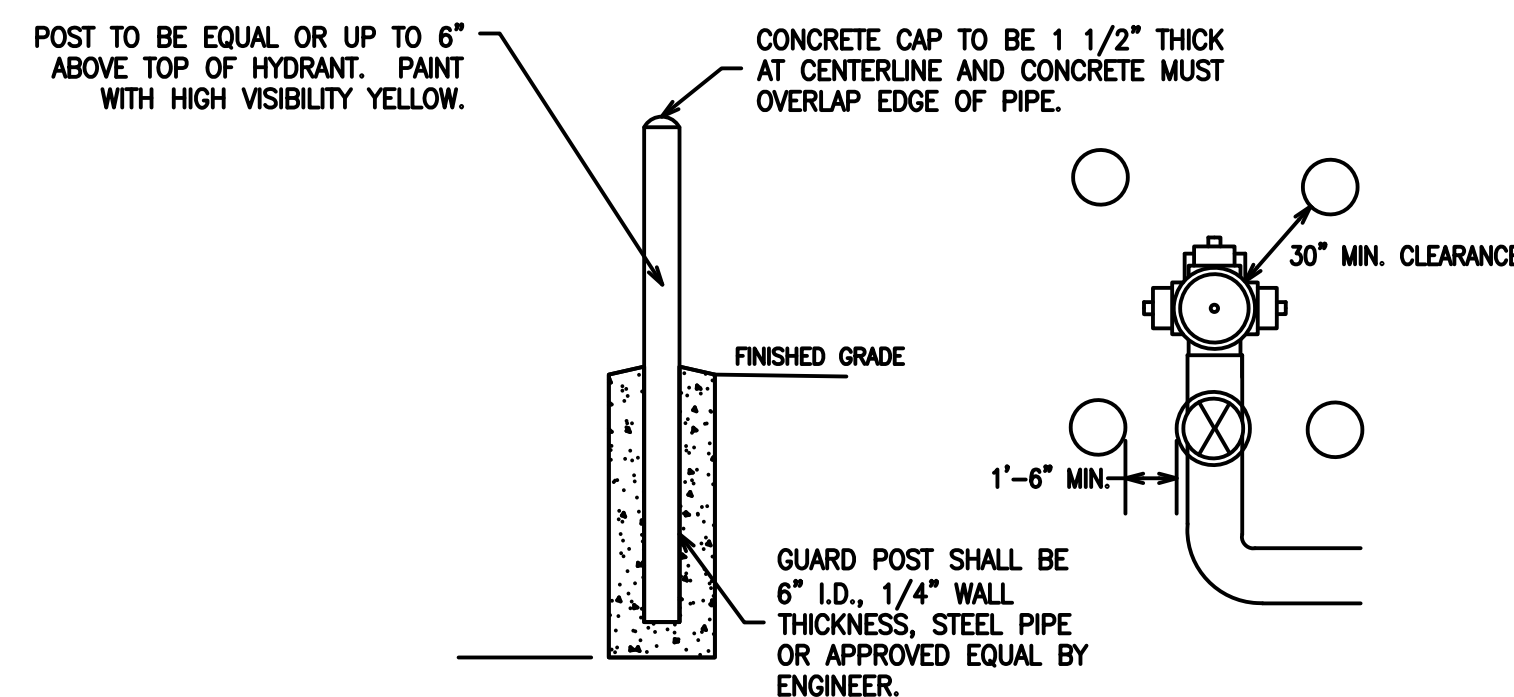
PLAN

6" HYDRANT SIDE OUTLET

- NOTES:
1. HYDRANT EXTENSIONS BETWEEN THE STANDPIPE LOWER SECTION & STANDPIPE UPPER ARE LIMITED TO 18 INCHES
 2. ALL HYDRANTS COMPANION VALVES, BENDS, AND TEES TO BE FULLY RESTRAINED BY MECHANICAL JOINT RESTRAINT SYSTEM FITTINGS (MEGA-LUG OR APPROVED EQUAL).
 3. THRUST BLOCKS ARE REQUIRED AT ALL TEES, BENDS AND ENDS.
 4. ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) FOR HYDRANT ASSEMBLIES SHALL BE COR-BLUE OR APPROVED EQUAL.



PLAN 6" HYDRANT WATER MAIN END



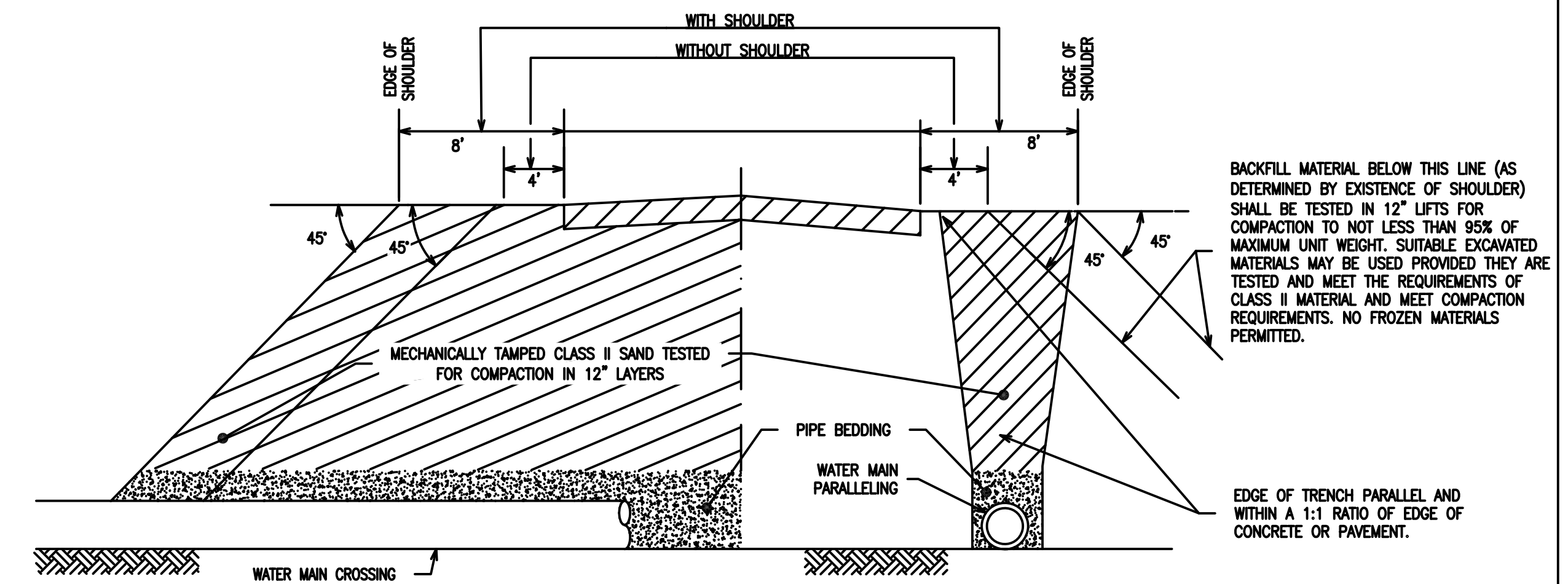
GUARD POST

- NOTES:
1. GUARD POST SHALL NOT INTERFERE WITH HYDRANT OPERATION
 2. TO BE INSTALLED IN ALL PAVED AREAS PARKING LOTS, PARKS, PLAZAS, ETC. (NOT RIGHT-OF-WAYS) SPACE WHERE VEHICLE EQUIPMENT DAMAGE TO HYDRANT IS POSSIBLE.

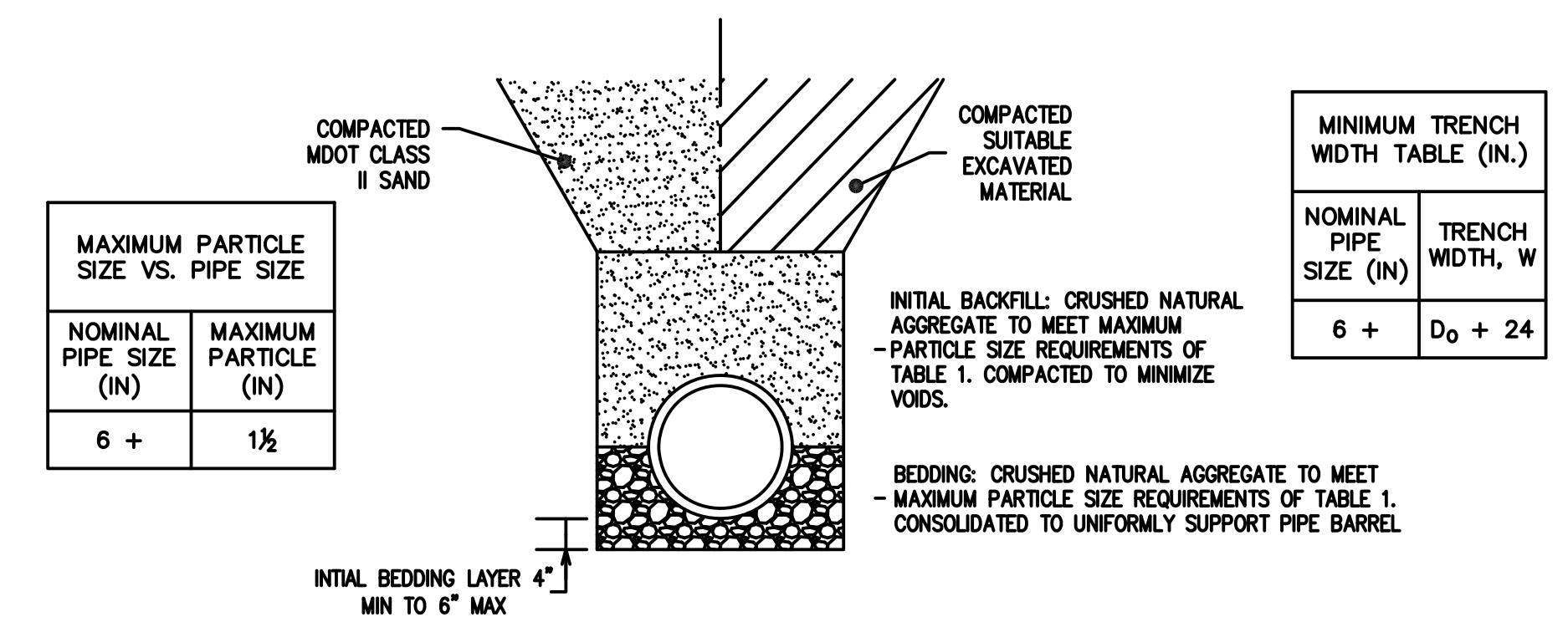
| FOR 90° BENDS OR SMALLER | | | | | FOR PLUGS | | | | FOR TEES | | | | |
|--------------------------|----|------|------|--------|-----------|--------|--------|--------|----------|-------|-------|------|--------|
| D | A | B | C | E MIN. | D | A | B | C MIN. | D | A | B | C | E MIN. |
| 20" | 8" | 6.5" | 3.5" | 2.5" | 20" | 7" | 5" | 2.5" | 20" | 6.5" | 4.5" | 3.5" | 3" |
| 16" | 6" | 4" | 2.5" | 2" | 16" | 4'-10" | 4'-10" | 2" | 16" | 4'-8" | 4'-8" | 2.5" | 2.75" |
| 12" | 4" | 3" | 2" | 1.75" | 12" | 4'-4" | 3" | 1'-9" | 12" | 4" | 3" | 2.5" | 2.5" |
| 10" | 3" | 3" | 2" | 1.75" | 10" | 3" | 2" | 1'-6" | 10" | 3" | 2" | 2" | 2.25" |
| 8" | 3" | 2" | 2" | 1.5" | 8" | 2'-10" | 2'-6" | 1'-6" | 8" | 2'-6" | 2" | 2" | 2.25" |
| 6" | 2" | 1.5" | 2" | 1.25" | 6" | 1'-6" | 1'-6" | 3" | 6" | 2" | 2" | 2" | 2.25" |

THRUST BLOCK DETAILS

- NOTE:
1. 3000 PSI CONCRETE TO BE USED. THRUST BLOCK TO ABUT & REST AGAINST UNDISTURBED SOIL OR EARTH COMPACTED TO 95% MODIFIED PROCTER.



MINIMUM BACKFILL UNDER OR NEAR PAVEMENT



DUCTILE IRON PIPE TRENCH DETAIL

- NOTES:
1. DUCTILE IRON PIPE IS CONSIDERED A FLEXIBLE PIPE THAT WHEN INSTALLED UNDERGROUND IS DESIGNED TO DEFLECT UNDER LOAD.
 2. DO NOT COMPACT INNER BEDDING OF INITIAL BEDDING LAYER.
 3. CAREFULLY EXCAVATE BELL OR COUPLING HOLES FROM THE INITIAL BEDDING LAYER.
 4. SHOVEL SLICE BEDDING MATERIAL IN THE HAUNCH AREA ALONG THE BOTTOM CIRCUMFERENCE OF THE PIPE TO CONSOLIDATE BEDDING AND UNIFORMLY SUPPORT THE PIPE BARREL.
 5. COMPACT INITIAL BACKFILL MATERIALS IN LIFTS NOT EXCEEDING 6 INCHES BY HAND TAMPING AROUND AND DIRECTLY ABOVE PIPE TO MINIMIZE VOIDS.
 6. DO NOT USE MECHANICAL COMPACTION EQUIPMENT DURING INITIAL BACKFILL OPERATIONS UNTIL MATERIAL HAS BEEN BROUGHT TO 12 INCHES ABOVE THE TOP OF PIPE BARREL.
 7. COMPACT SAND BACKFILL AND STANDARD TRENCHES OUTSIDE OF PIPE ZONE TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT IN LIFTS NOT EXCEEDING 12 INCHES.
 8. FOR MINIMUM TRENCH WIDTHS, REFER TO TABLE 2, MAXIMUM TRENCH WIDTH = $D_0 + 2D_0$ UNLESS MINIMUM TRENCH WIDTH IS GREATER.
 9. IF THE PIPE IS LOCATED BENEATH THE GROUND WATER TABLE, THE PIPE ZONE SHALL BE WRAPPED IN A GEOTEXTILE SEPARATOR TO MINIMIZE MIGRATION OF SOIL INTO THE PIPE ZONE.

WATER MAIN STANDARD DETAILS

| REVISION BLOCK | | | |
|-----------------------|---------|-----------|---|
| Rev. No. | Rev. By | Rev. Date | Description |
| 1 | DL | 11/02/14 | PROPOSED CHANGE TO DELETE REFERENCE TO BOTTLE SLEEVE MANUFACTURER |
| 2 | DL | 10/29/14 | FINAL CHANGE TO DELETE REFERENCE TO BOTTLE SLEEVE MANUFACTURER |
| 3 | WRC | 02/14/18 | MARKUPS PER G. APPEL |
| 4 | WRC | 01/01/20 | GENERAL UPDATE |
| ORIG. DATE: 01/01/01 | | | |
| SCALE: NONE | | | |
| DESIGNED BY: WRC | | | |
| DRAWN BY: WRC Mapping | | | |



ONE PUBLIC WORKS DRIVE, BLDG 95 WEST
WATERFORD, MICHIGAN
48326-1907

SHEET NO.: 3 of 7

22.23 VILLAGE CENTER OVERLAY DISTRICT

22.23.1 AUTHORITY

Pursuant to authority granted in Section 125.3503 of the Michigan Zoning Enabling Act (P.A. 110 of 2006, as amended), this Overlay District is written to permit flexibility in the regulation of land development in the Beverly Hills Village Center as needed to achieve the vision set forth in the published Village Center Plan.

22.23.2 INTRODUCTION AND ELEMENTS OF THE VILLAGE CENTER

a. Village Center Plan. This Section of the Zoning Ordinance is intended to implement the Vision, Concept and Design Guidelines for the Village Center as established in the Village's published Village Center Plan. The Village Center Plan articulates design principles to support the Vision and gives examples of how sites along the corridor could redevelop. The Design Guidelines provide standards for building, site and district design for the Village Center. The regulations contained in this Section enumerate the principles of the Village Center Plan inasmuch as possible; however, reference to the published Village Center Plan is highly recommended.

b. Overlay District Elements. To achieve the vision set forth in the Village Center Plan, the Village has established an Overlay District comprised of the following key elements:

1. Regulating Plan. Shows recommended building height and location of streets in the Village Center, and Primary Frontages where regulation of building mass is most important to create the streetscape and environments envisioned. Some flexibility in the location of streets may be permitted by the Village, upon recommendation by the Planning Commission as discussed in this Section.
2. Slip Street Detail. This illustration shows a possible cross-section for Southfield Road, as discussed in Section 22.23.5. Such a design requires approval from the Road Commission for Oakland County.
3. Form-Based Code. Enumerated in this Section, provides the regulatory framework for development and redevelopment in the Village Center Overlay District, as shown on the Regulating Plan discussed above.

22.23.3 PURPOSE AND DEVELOPMENT PRINCIPLES

The purpose of this District is to accomplish the following:

- a. Define a Village Center area for Beverly Hills that will create an identity for its commercial core

The Goddard School development will be the first development in Beverly Hills using the Overlay District. We feel that the development fits the mission statement of the Village Center Plan by “enhancing the economic base by assisting in the retention and expansion for community valued businesses...”

There are few businesses that are as highly regarded as high-quality childcare. Having a Goddard School in Beverly Hills will not only help attract but retain young professionals to the community for years to come.

b. Implement the Village Center Vision as illustrated in the Beverly Hills Village Center Plan
Our development meets the vision of the Village Center Plan by developing a now unattractive vacant parking lot and constructing two fresh, modern buildings that will complement each other in use, which will elevate the quality of all the citizens in the community.

c. Promote development of an integrated, mixed-use, pedestrian-oriented environment with buildings containing commercial, residential and office uses

Our development consists of integrated, mixed-use by providing an additional 5,000 sq. ft of mixed use space that will be very pedestrian-oriented which will include: outdoor dining potential, pedestrian connectivity between the two buildings with and neighboring properties, public green space

d. Provide street linkages and internal drives to serve the development within the district, and logical street connections to developments outside the district

The site has more than required parking spaces and allows for not only circulation within the site but also a continuation for future connections to adjacent parcels.

e. Regulate building height and require appropriate landscaping and screening to achieve appropriate scale along streetscapes and ensure proper transition to nearby residential neighborhoods.

Both buildings are two story which meet the Village Center Plan. All landscape/streetscape requirements are met.

Create a definable sense of place for the Village with a pedestrian oriented, traditional urban form that encourages residents to visit, stay, and enjoy the district

Site amenities will include outdoor public space and sidewalk connectivity.

g. Encourage development consistent with the desired vision through incentives that will encourage use of the form-based code option N/A

22.23.4 APPLICABILITY

a. Application of Regulations. Within the Village Center Overlay District, all requirements of the Beverly Hills Zoning Ordinance shall apply, except as modified by this Section. When applying the regulations to the form-based zones, if regulations elsewhere within this ordinance conflict or appear to conflict with the regulations of this Section, the regulations of this Section shall apply.

We comply with the Beverly Hills Zoning Ordinance.

b. Interpretations and Appeals. This Overlay District relies, in part, on the Village Center Plan adopted by the Village Planning Commission. As such, certain flexibility is required to implement the Village Center Plan, depending on the timing, location and nature of redevelopment within the Village Center. Therefore, the Planning Commission shall have the authority to act on appeals, interpretations or modifications, in order to ensure they are consistent with the overall vision. Modifications are discussed in Section 22.23.11. N/A

c. Underlying Zoning. Where the term "underlying zoning" is used, it shall refer to the zoning of the subject property as designated on the official Zoning Map for the Village of Beverly Hills and any applicable regulations that apply to that zoning district. Underlying this Village Center Overlay District are the following underlying zoning districts:

1. R-1, Single Family Residential
2. R-3, Single Family Residential
3. RM, Multiple Family Residential
4. O-1, Office
5. B, Business
6. P, Parking

The proposed use, Childcare, is a permitted use in the B Business District. A variance to the playground size requirements will be requested.

d. Expansion of the District. In order to provide for the harmonious development and use of land within the Village Center, and to see to its logical extension, the Village Council, upon recommendation by the Planning Commission, may extend the boundaries of the Village Center where development is proposed that is consistent with the Village Center Plan and the Purpose and Development Principles in Section 22.23.3 above. N/A

e. Conflicts. Where the provisions of this Section conflicts with other provisions of the Beverly Hills Code of Ordinances, the provisions of this Section shall govern. N/A

f. Triggers for Compliance. Use and development of land within this Overlay District shall be as follows:

1. Existing Uses. An existing use shall be permitted to continue. N/A

2. Changes in Use. Changes in use from one use to another use that does not require additional parking or building additions shall be permitted. N/A

3. Site Improvements. Site and building maintenance shall be allowed. N/A

4. Building Expansions N/A

a. Exempt Expansions. Additions of a size equal or less than 10% of the gross square footage of the existing buildings may be permitted and may be constructed according to the requirements of the Village Center Overlay District or the underlying zoning, at the property owner's discretion. N/A

b. Minor Expansions. Additions of a size greater than 10% but equal or less than 25% of the gross square footage of the existing building, shall be permitted, but shall meet the Site Layout Requirements for the Zone in which it is located unless modifications are allowed in accordance with Section 22.23.11. N/A

c. Major Expansions. Additions of a size greater than 25% of the gross square footage of the existing building shall meet the requirements of this Village Center Overlay District. N/A

5. New Buildings and Development. New development projects proposed under this Village

Center Overlay District, shall meet all requirements of this Section. **We meet all requirements of the Village Center Overlay District.**

6. Modifications. Modifications of the requirements in this Village Center Overlay District may be approved when consistent with the Village Center Plan, and as discussed in Section 22.23.11. **N/A**

22.23.5 STANDARDS FOR NEW DEVELOPMENT

a. Streets and Access. The Regulating Plan shows recommended street locations to provide interconnectivity and access to internal portions of the Village Center. These streets will be maintained by private property owners, but cooperation among owners is needed to create the connections needed to implement the Regulating Plan. To ensure such coordinated access is phased in as development occurs, each development shall be responsible for recording easements to allow for shared access.

Safety of the children and families in the parking lot needs to be considered.

1. Location. The location of streets shall be generally consistent with the Regulating Plan, but may be modified by the Planning Commission upon consideration of the criteria in Section 22.23.11, Administration.

Adhering to the Regulation Plan street location would be a hardship for this particular site and diminish the property value considerably due to its size and irregular shape.

2. Street Design. All streets and service drives shall be constructed to meet the requirements of the Village of Beverly Hills Code of Ordinances. **We comply. Refer to sheet C3.0**

3. Temporary Access. Where a planned street is not constructed at the time of redevelopment of a property and connections cannot be immediately provided, temporary access may be allowed provided the following is met: **N/A**

a. Such access meets the construction requirements of the zoning ordinance in terms of width and design. **N/A**

b. The development has dedicated the necessary easements to accommodate any streets or service drives planned within their site. **N/A**

c. Parking agreements have been executed on the developer's site to allow for future shared parking. **N/A**

d. Deed restrictions are recorded that ensure its removal when such streets and service drives are constructed. **N/A**

4. Street Furniture. Benches, trash receptacles and other furniture may be required in park and plaza areas and along adjoining sidewalks where the Planning Commission determines that pedestrian activity will benefit from these facilities. Street furniture shall be consistent with any published Village Center Design Specifications. **We comply. Refer to sheet C3.0**

5. Slip Street. Upon endorsement by the Road Commission for Oakland County, a single row of parking may be permitted along the entire front of the building, which may be located within the right-of-way. The final design shall be determined by the Road Commission for Oakland

County, and may change at their discretion. The current design includes angled or parallel parking with a one-way circulation aisle. A minimum seven (7) foot wide sidewalk should be provided between the parking and the building, and the required building setbacks/build-to requirements of this Section shall begin at the edge of the sidewalk closest to the property.

N/A

b. Public Open Space. A minimum of 5% of the gross floor area of all stories of proposed buildings shall be provided. Such areas shall be located to complement existing or planned civic and greenspaces, and shall be one of the following: **We comply. Refer to sheet C3.0**

1. Greenspace. Greenspaces are open spaces that provide recreation or leisure areas that serve the entire Village Center area. **We comply. Refer to sheets LS 1 of 3, LS 2 of 3 and LS 3 of 3.**

a. Location and design of greenspaces shall generally follow those shown on the Village Center Plan, with flexibility according to Section 22.23.11.

We comply. Refer to sheets LS 1 of 3, LS 2 of 3 and LS 3 of 3.

b. To the greatest extent possible, greenspaces should be grouped with greenspace on adjoining parcels.

Refer to sheets LS 1 of 3, LS 2 of 3 and LS 3 of 3.

Our playgrounds were placed on the back of the lot as a buffer between the buildings and the residential area. On the Southeast corner of the Goddard Annex building we have created a green space plaza with the intent that the neighbor south of us would expand on it in the future.

c. Greenspaces shall be landscaped and shall not be counted toward parking lot, greenbelt or buffer requirements.

We comply. Refer to sheets LS 1 of 3, LS 2 of 3 and LS 3 of 3.

2. Park or playground. Parks and playgrounds are best suited near residential areas at the perimeter of the Village Center.

Playgrounds on site are private for the school children only. However, they are located adjacent to the residential area and provide a buffer.

3. Corner Plaza. Required build-to lines may be modified to accommodate a plaza. The typical size of a plaza is 25 feet by 25 feet, but may vary depending on site conditions.

A corner plaza has been provided at the Goddard Annex southeast corner.

4. Pedways. Pedways may be incorporated throughout developments as discussed in the Village Center Plan.

Sidewalks for pedestrian traffic are indicated on Sheet C3.0

22.23.6 CONTRIBUTIONS IN LIEU

The Village recognizes that certain physical elements of the Village Center may be best developed in a coordinated fashion rather than piecemeal as development occurs. Therefore,

where desired by the applicant or where required by the Village, payments in lieu of those improvements may be made in accordance with the following:

a. Payments in lieu may be accepted for the following improvements: **N/A**

1. Streets as shown on the Regulating Plan. **N/A**

2. Streetscaping as listed in Section 22.23.8a. **N/A**

3. Parking as discussed in Section 22.23.10. **N/A**

4. Slip Street along Southfield Road as discussed in Section 22.23.5, if allowed by the Road Commission for Oakland County. **N/A**

5. Public Open Space as discussed in Section 22.23.5. **N/A**

6. Required Landscaping as discussed in Section 22.23.10.e. **N/A**

b. In cases where the elements above cannot reasonably be developed on a parcel, or for those where coordinated installation (on-street parking, for example) is needed for logical development, the Village may allow developers to defer construction in one of the following ways: **N/A**

1. Payment into a dedicated fund, of an amount equal to the cost to install all deferred improvements on the subject site. Improvement costs must also consider off-site improvements and utilities needed to serve the site. The developer shall submit to the Village an estimate of costs to construct these items for verification by the Village's engineer. **N/A**

2. The Village may facilitate, through a special assessment district or other means, construction of streetscaping as development progresses in the Village Center. Developments proposed under this Village Center Overlay District shall participate in the special assessment district, and agree to pay back the costs to serve their portion of the Village Center. The assessment district may be created to install or replace some or all of the items listed above, the costs of which will be distributed amongst developed parcels consistent with the standards listed. **N/A**

22.23.7 ZONES AND PERMITTED USES

a. Zones. The Village Center Overlay District shall be and is hereby divided into Zones as enumerated on the Regulating Plan.

1. Mixed Use Zone. The Mixed Use Zone is intended to provide for a traditional mixture of office buildings, retail stores, entertainment establishments, public spaces, residential uses and related activities that are mutually supporting and serve the needs of Village residents. The intent of the zone regulations is to encourage a lively social environment and economically viable Village Center with a wide variety of uses in a pedestrian oriented unified setting, with shared parking and access.

The 5,000 sq. ft building meets this requirement and will consist of space in compliance with the underlying B-Business District zoning and compatible with the school use.

2. Residential Zone. The Residential Zone is intended to support the activities of the Mixed Use Zone through increased residential densities and pedestrian-oriented design. It is also intended to provide a transition between the tall mixed use buildings located near Southfield and 13 Mile Roads, and the neighborhoods abutting the Village Center. N/A

b. Permitted Uses.

1. Mixed Use Zone.

a. Any of the uses allowed in the underlying zoning districts, as listed in Section 22.23.4, may be permitted. We are permitted use.

b. Residential units, consistent with the Village Center Plan, may be permitted. These include dedicated residential areas as shown, but also mixed-use buildings as discussed in the Village Center Plan.

c. Reconstruction and expansion of existing single-family structures is permitted, provided such is consistent with the underlying zoning requirements.

d. Other complementary uses, consistent with the Village Center Plan and adjacent land uses, may be permitted by the Village Council upon recommendation by the Planning Commission.

2. Residential Zone. N/A

a. Uses permitted in the underlying zoning districts shall be allowed.

b. Residential units, consistent with the Village Center Plan, may be permitted.

c. Reconstruction and expansion of existing single-family structures is permitted, provided such is consistent with the underlying zoning requirements.

22.23.8 MIXED USE ZONE REQUIREMENTS

a. Streetscaping. The following shall be installed along all Primary Frontages, as shown on the Regulating Plan, as part of a comprehensive street and streetscape network:

TRAFFIC IMPACT ANALYSIS

For

THE GODDARD SCHOOL – BEVERLY HILLS

June 30, 2021

Prepared by Tim S. Storey, PE
STOREY ENGINEERING GROUP, LLC



STOREY ENGINEERING GROUP, LLC

CIVIL ENGINEERS / LAND SURVEYORS
48264 Manchester, Macomb, MI 48044
(586) 216-1043
www.storeyengineering.com

*Tim S. Storey, PE
President*

Village of Beverly Hills
Planning Department
18500 W. 13 Mile Road
Beverly Hills, MI 48025

June 30, 2021
SEG Project No. 2021-008

**RE: TRAFFIC IMPACT ANALYSIS
PROPOSED GODDARD SCHOOL – BEVERLY HILLS
31655 SOUTHFIELD ROAD
VILLAGE OF BEVERLY HILLS, OAKLAND COUNTY, MICHIGAN**

Dear Public Official:

We have prepared a brief traffic impact analysis for the proposed Goddard School development site compared to the previously existing McDonalds Restaurant. The analysis used trip generation data from the ITE Trip Generation Manual, 10th edition. The information discussed below has been drawn from the attached ITE Vehicle Trip Generation Data Plots.

The site is located along the west side of Southfield Road approximately 700 feet south of Beverly Road. The existing site is currently vacant but was last occupied by a McDonalds Restaurant. The McDonalds appeared to be approximately 5,000 sf. The proposed site is to be occupied by a Day Care and a small retail building. However, roughly 60% of the retail building will be utilized by the Day Care use for various educational programs for the children. The total Day Care traffic generation is based on the number of students, which is proposed at 200. The remainder of the building (1,900 sf) will be used for some type of retail use, it is assumed at the present time that it would be used for a small café (fast casual dining).

Our analysis shows that the net effect of the proposed changes to the property would be to reduce the AM Peak Trips by 45 Trips and the PM Peak Trips would increase by 22 Trips while the total trips would decrease by 1,397. This is to be expected since fast food restaurants have a relatively modest peak hour while they have a large total number of trips.

When considering the peak hour trips for the proposed use in the AM, the Day Care Use only was used since the retail building would not be open between 7am to 9am. The total am trips are 156 with the directional distribution of 83 entering and 73 exiting. In contrast, the PM peak hour is a combination of both the Day Care Use and a small Fast Casual Dining Restaurant. The total pm trips are 185, with the directional distribution of 89 entering and 96 exiting.

We then considered the total weekday traffic at the proposed use (958 Trips) to a McDonalds Restaurant (2,355 Trips). (Please note we have estimated the total weekday trips of the small retail at 140 based on a percentage of the Day Care Trips since there was not enough ITE Trip Data to make a proper comparison). Clearly the proposed development would be expected to generate less traffic than the previous fast food restaurant use. We also obtained Average Annual Daily Traffic (AADT) count data for Southfield Road from SEMCOG south of Beverly Road. The AADT for Southfield Road at this location was 27,400 in 2018. It is unclear how many

of the trips “generated” by the proposed development are vehicles that would already have been on the adjacent roadways, but we believe a percentage of them would fall into this category.

Based on the above discussion, it is our conclusion that the impact of the proposed project would be minimal on the surrounding roadways and when compared to the previous use, it would be a reduction in impact.

Should you have any questions or require additional information, please do not hesitate to contact me directly at 586-216-1043.

Sincerely,

STOREY ENGINEERING GROUP, LLC

A handwritten signature in blue ink, appearing to read 'T. S. Storey', with a horizontal line extending to the right.

Tim S. Storey, PE, LEED AP
President

Enclosures: ITE Traffic generation Data

CC: Kellie McDonald – The Goddard School of Beverly Hills
Matt Cibor – The Goddard School of Beverly Hills

Day Care Center (565)

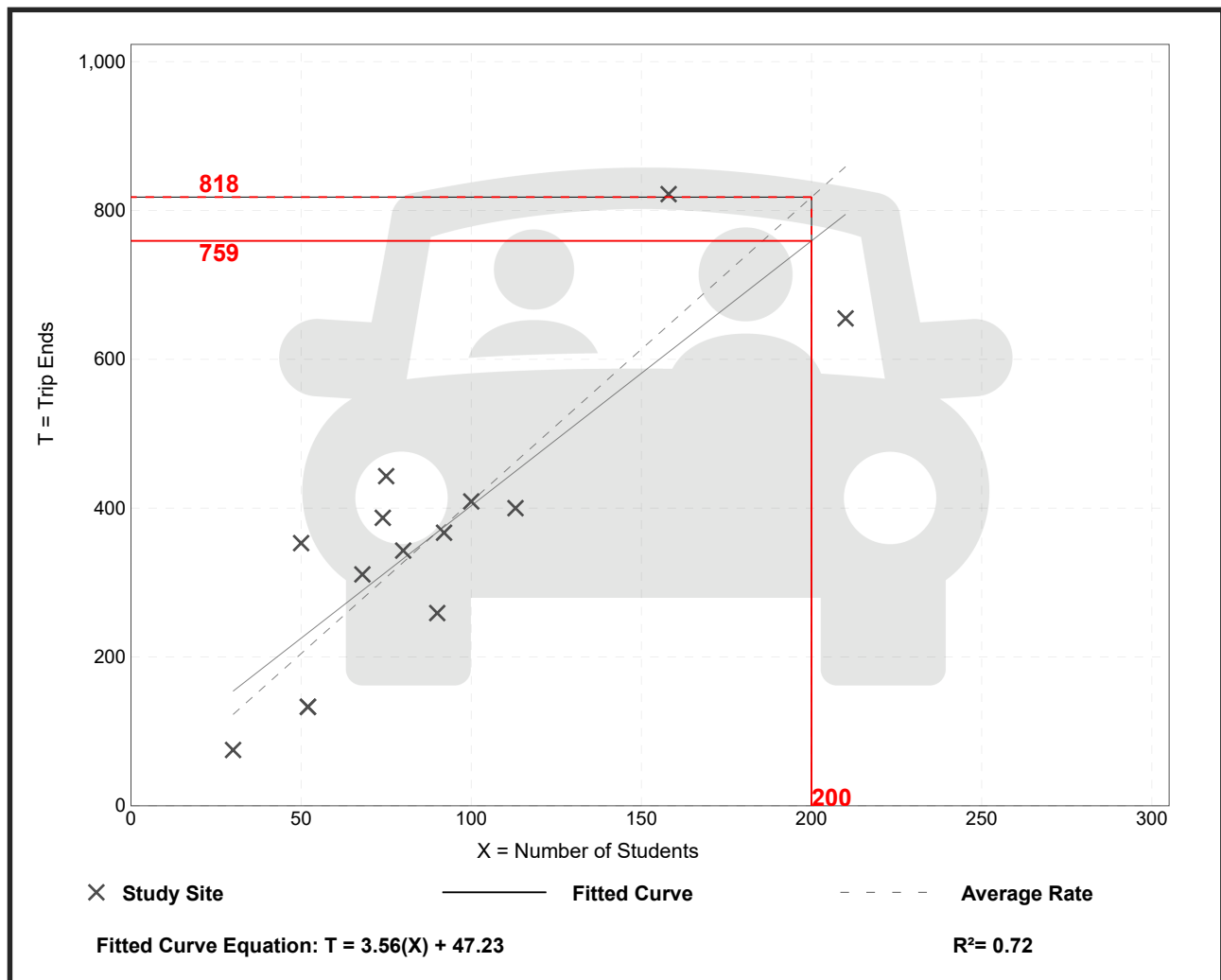
Vehicle Trip Ends vs: Students
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 14
Avg. Num. of Students: 89
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Student

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 4.09 | 2.50 - 7.06 | 1.21 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

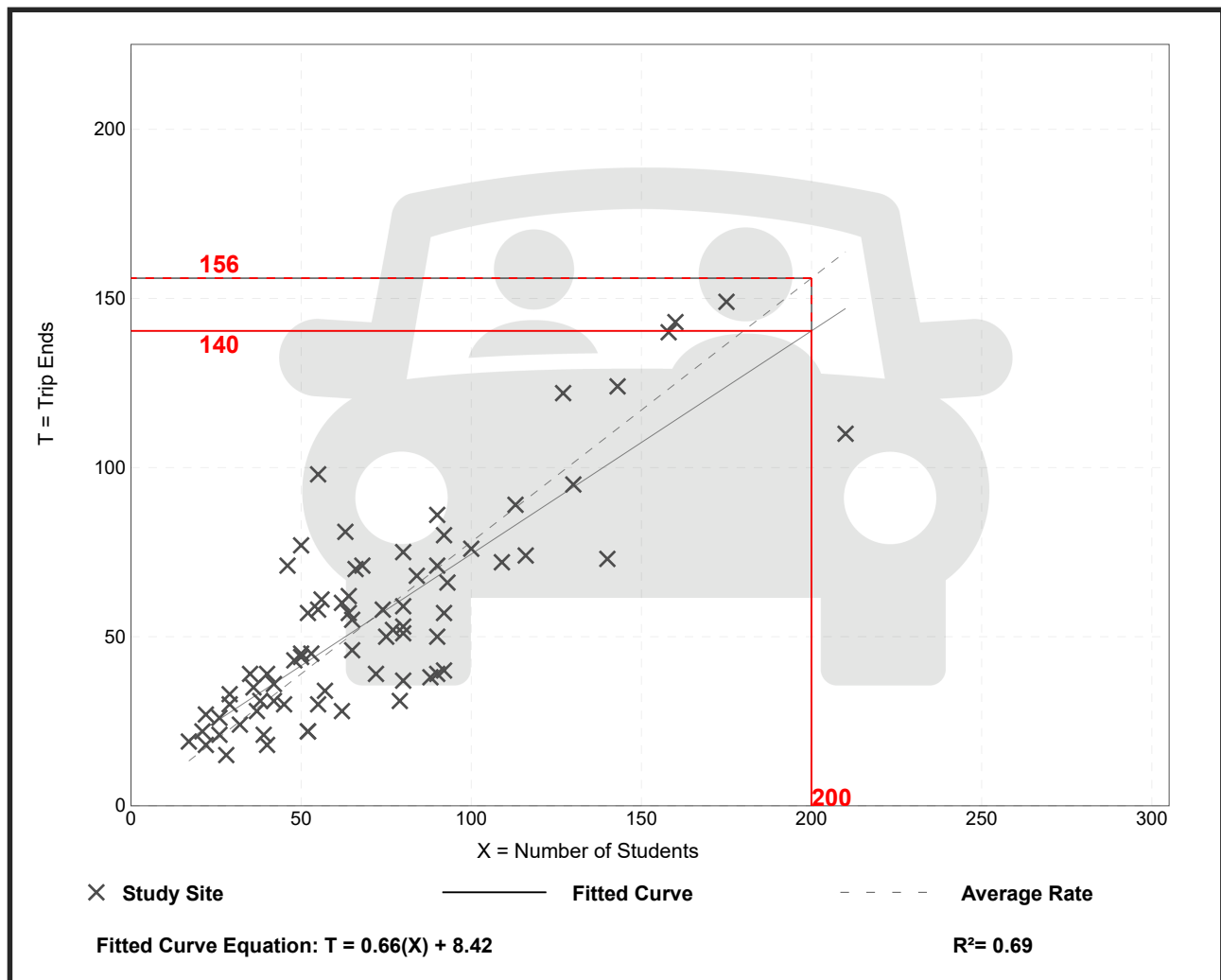
Day Care Center (565)

Vehicle Trip Ends vs: Students
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 75
 Avg. Num. of Students: 71
 Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per Student

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.78 | 0.39 - 1.78 | 0.25 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

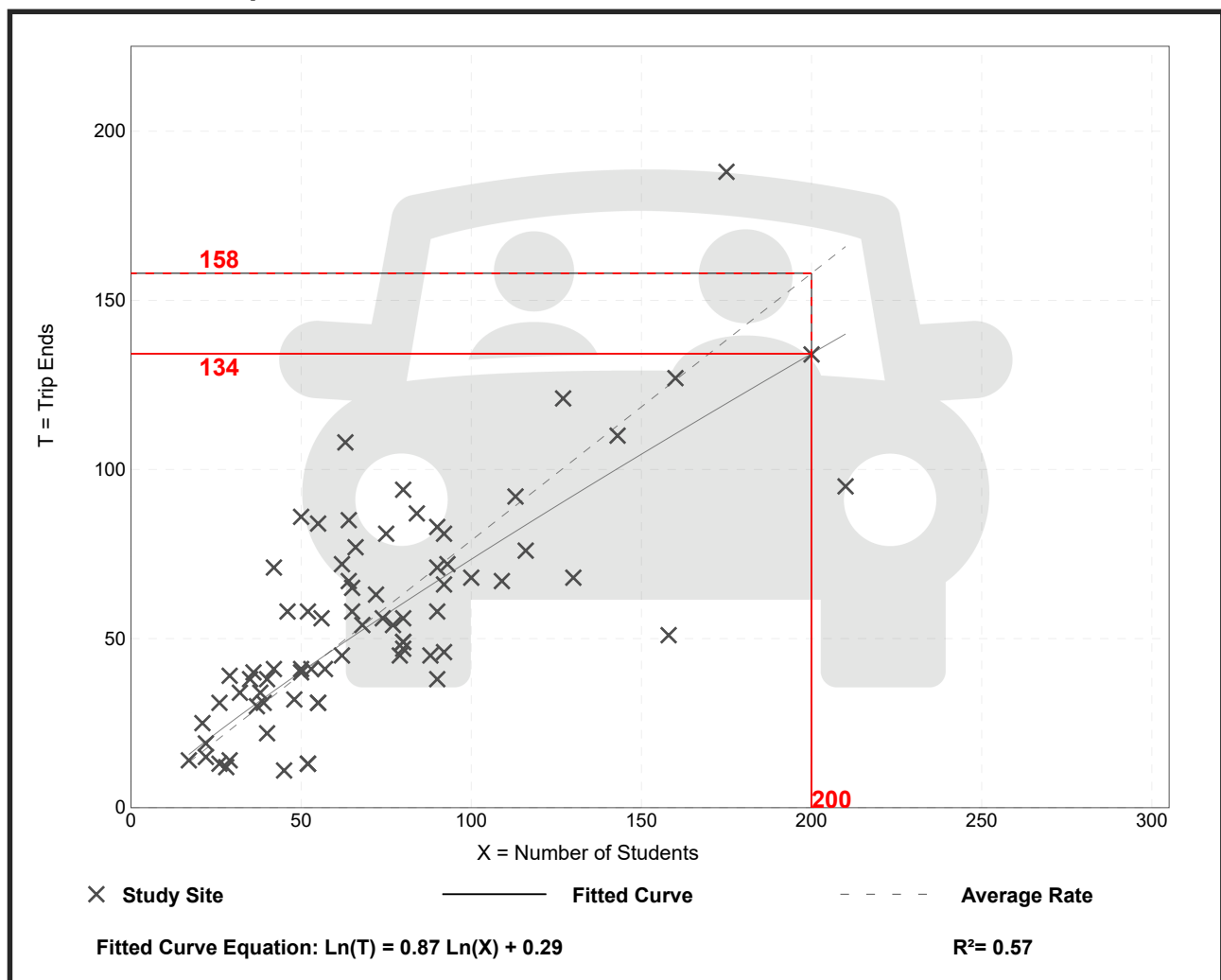
Day Care Center (565)

Vehicle Trip Ends vs: Students
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 75
 Avg. Num. of Students: 72
 Directional Distribution: 47% entering, 53% exiting

Vehicle Trip Generation per Student

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 0.79 | 0.24 - 1.72 | 0.30 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

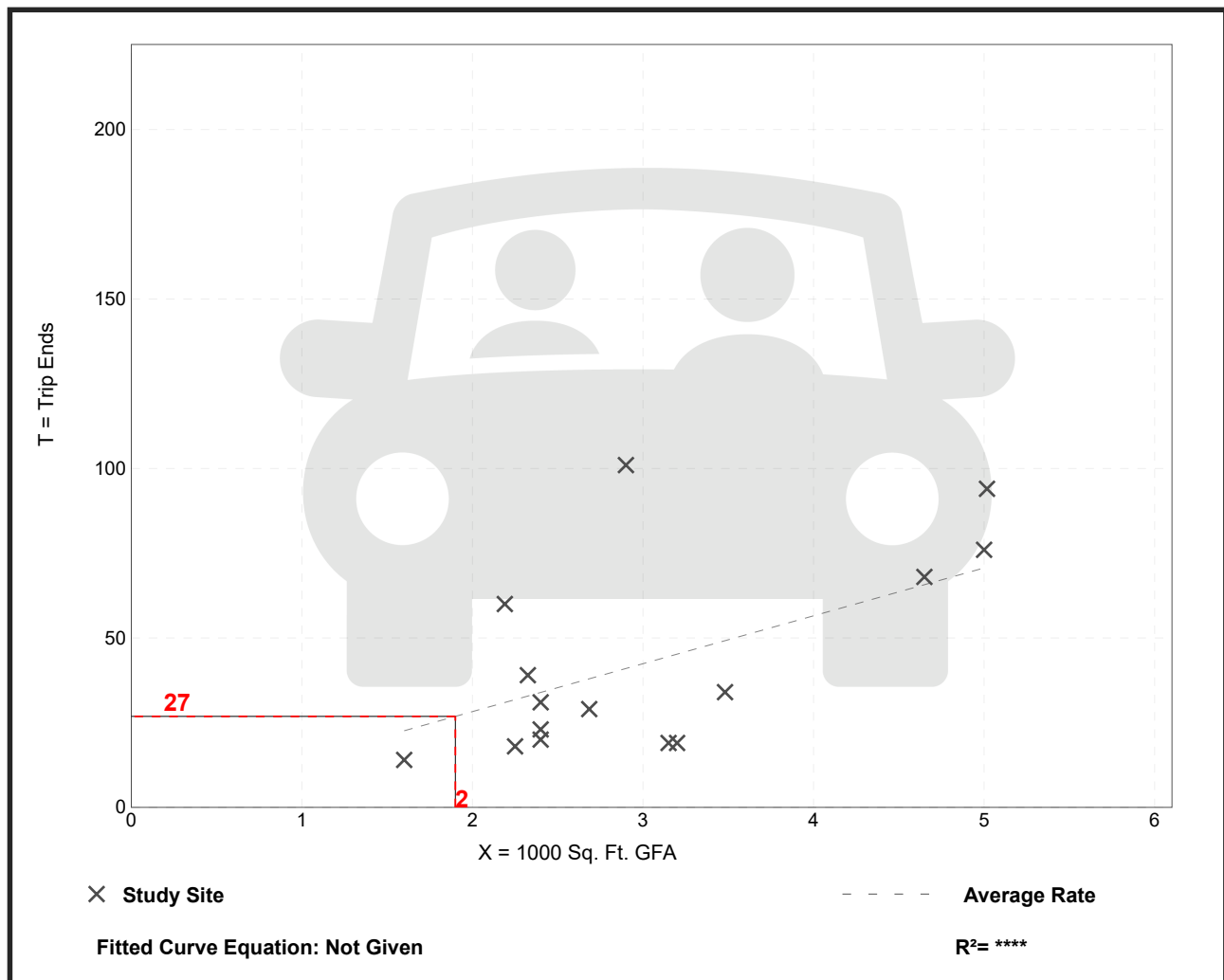
Fast Casual Restaurant (930)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
 Number of Studies: 15
 Avg. 1000 Sq. Ft. GFA: 3
 Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 14.13 | 5.94 - 34.83 | 7.72 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

Fast-Food Restaurant with Drive-Through Window (934)

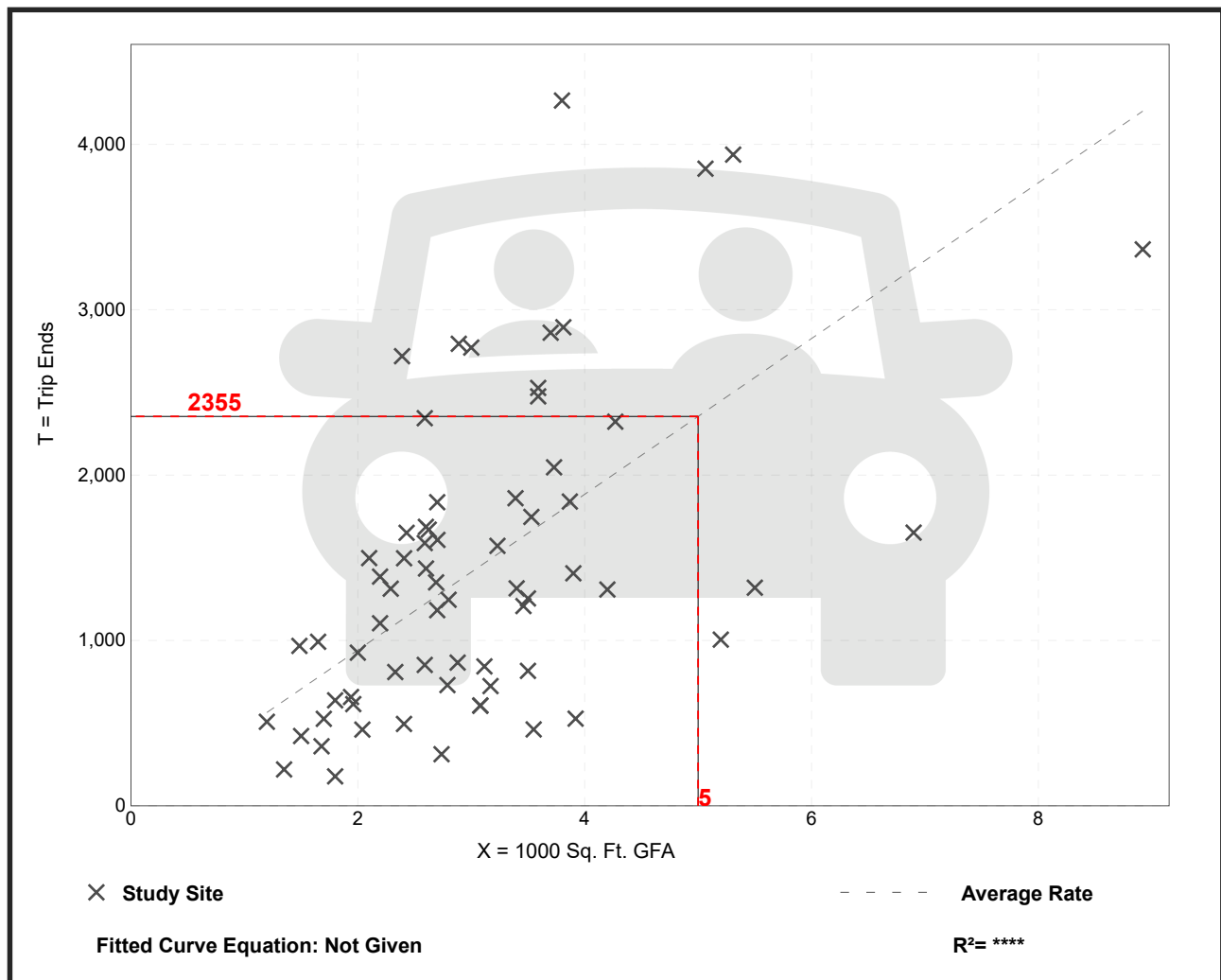
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 67
Avg. 1000 Sq. Ft. GFA: 3
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

| Average Rate | Range of Rates | Standard Deviation |
|--------------|-----------------|--------------------|
| 470.95 | 98.89 - 1137.66 | 244.44 |

Data Plot and Equation



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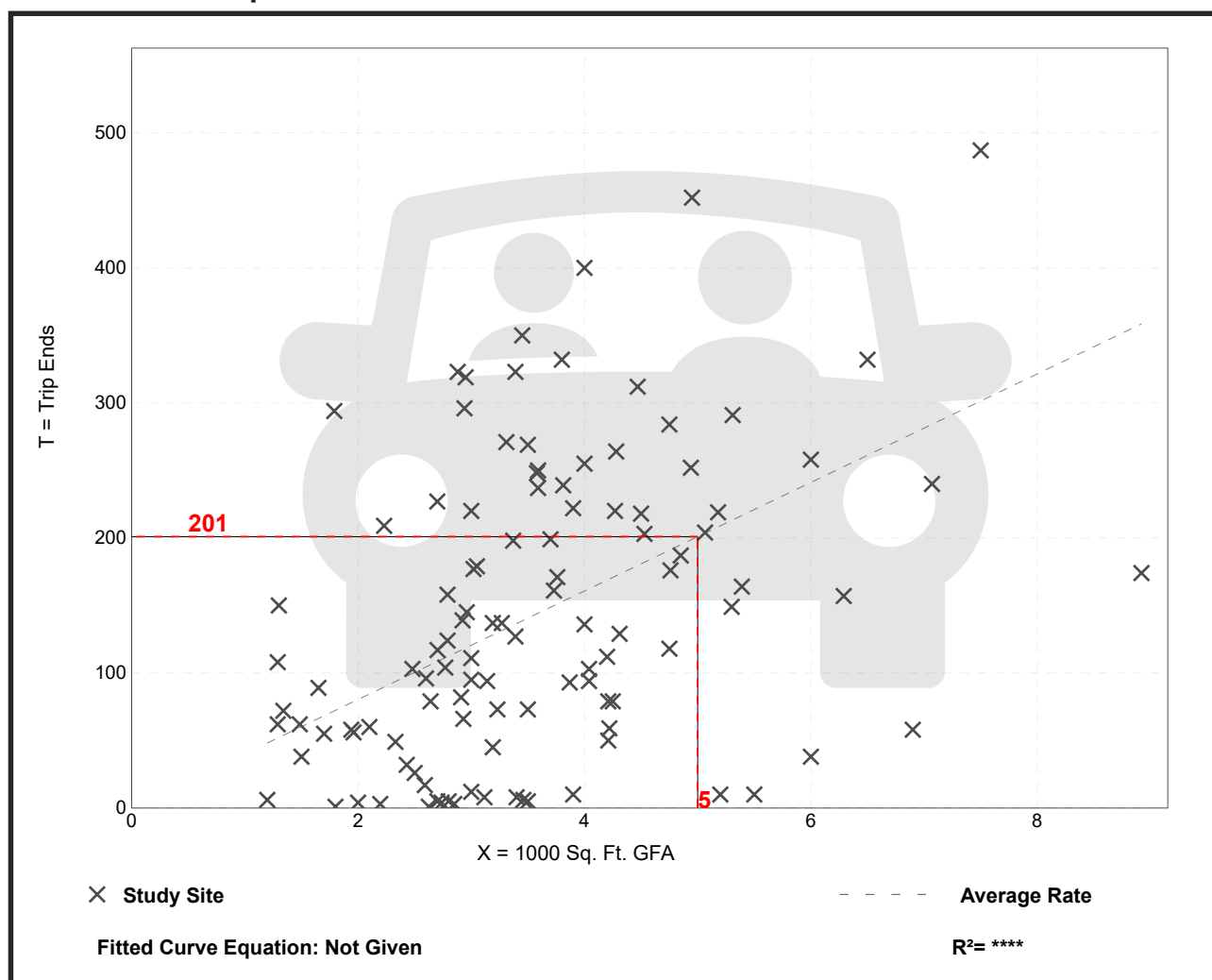
Fast-Food Restaurant with Drive-Through Window (934)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 7 and 9 a.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 111
 Avg. 1000 Sq. Ft. GFA: 4
 Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 40.19 | 0.38 - 164.25 | 28.78 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

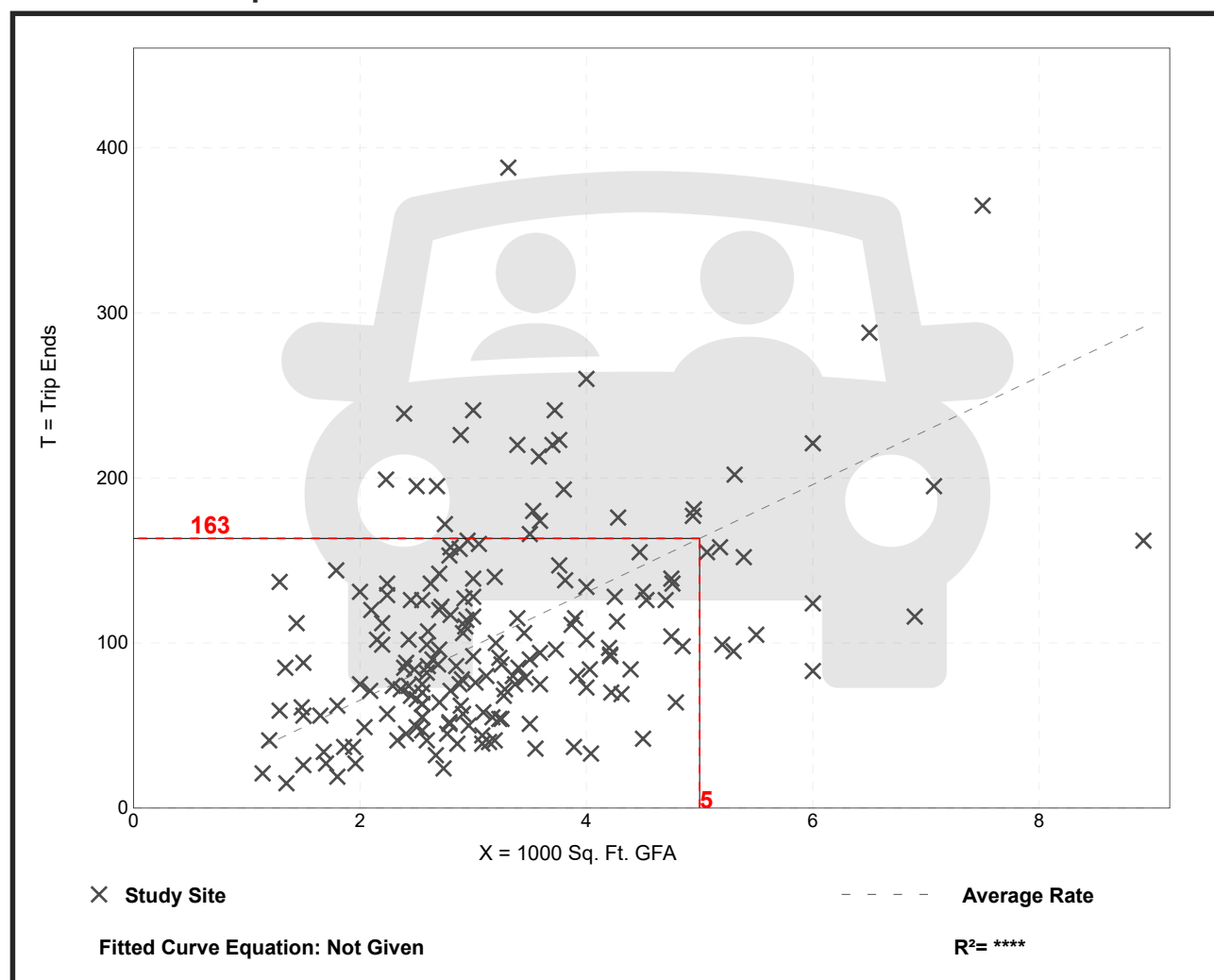
Fast-Food Restaurant with Drive-Through Window (934)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 185
 Avg. 1000 Sq. Ft. GFA: 3
 Directional Distribution: 52% entering, 48% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

| Average Rate | Range of Rates | Standard Deviation |
|--------------|----------------|--------------------|
| 32.67 | 8.17 - 117.22 | 17.87 |

Data Plot and Equation



Trip Gen Manual, 10th Edition • Institute of Transportation Engineers

AADT: 27400

- Road Name: **Southfield Rd**
- County: **Oakland**
- Community: **Southfield Twp**
- Year: **2018**
- Type: **Observed**
- Lanes: **5**
- Posted Speed: **45 mph**
- Owner: **County**
- Length: **0.48** mi
- SEMCOGID: **154**

Note: Speed limit data is based on information we obtained from various agencies and can vary from actual posted speeds.



To: Honorable President George; Village Council Members
Chris Wilson, Village Manager

From: Kristin Rutkowski, Village Clerk/Assistant Village Manager

Subject: Michigan Municipal League Annual Meeting Voting Delegate

Date: July 15, 2021

The Michigan Municipal League is hosting its Annual Convention on September 22-24, 2021 in Grand Rapids. The League's Annual Meeting is scheduled for 4:15 pm on Wednesday, September 22nd.

Pursuant to the provisions of the League Bylaws, the Village must designate by action of its governing body one of its officials who will be in attendance at the Convention as its official representative to cast the vote of the municipality at the Annual Meeting, and, if possible, to designate an alternate voting delegate as well.

Suggested Resolution:

Be it resolved that the Village Council of the Village of Beverly Hills hereby appoints Council Member Rock Abboud as its voting delegate for the 2021 Michigan Municipal League Annual Meeting and appoints Council President John George as its alternate voting delegate.

Attachment

July 2, 2021

Michigan Municipal League Annual Meeting Notice

(Please present at the next Council, Commission or Board Meeting)

Dear Official:

The Michigan Municipal League Annual Convention will be held in Grand Rapids, September 22-24, 2021. The League's "Annual Meeting" is scheduled for 4:15 pm on Wednesday, September 22 in Ambassador Ballroom East at the Amway Grand Hotel. The meeting will be held for the following purposes:

1. Election of Trustees. To elect six members of the Board of Trustees for terms of three years each (see #1 on page 2).
2. Policy. A) To vote on the Core Legislative Principles document.

In regard to the proposed League Core Legislative Principles, the document is available on the League website at <http://www.mml.org/delegate>. If you would like to receive a copy of the proposed principles by fax, please call Monica Drukis at the League at 800-653-2483.

B) If the League Board of Trustees has presented any resolutions to the membership, they also will be voted on. (See #2 on page 2.)

In regard to resolutions, member municipalities planning on submitting resolutions for consideration by the League Trustees are reminded that under the Bylaws, they must be submitted to the Trustees for their review by August 20, 2021.

3. Other Business. To transact such other business as may properly come before the meeting.

Designation of Voting Delegates

Pursuant to the provisions of the League Bylaws, you are requested to designate by action of your governing body one of your officials who will be in attendance at the Convention as your official representative to cast the vote of the municipality at the Annual Meeting, and, if possible, to designate one other official to serve as alternate. Please submit this information through the League website by visiting <http://www.mml.org/delegate> no later than August 20, 2021.

We love where you live.



Regarding the designation of an official representative of the member to the annual meeting, please note the following section of the League Bylaws:

“Section 4.4 - Votes of Members. Each member shall be equally privileged with all other members in its voice and vote in the election of officers and upon any proposition presented for discussion or decision at any meeting of the members. Honorary members shall be entitled to participate in the discussion of any question, but such members shall not be entitled to vote. The vote of each member shall be cast by its official representative attending the meeting at which an election of officers or a decision on any proposition shall take place. Each member shall, by action of its governing body prior to the annual meeting or any special meeting, appoint one official of such member as its principal official representative to cast the vote of the member at such meeting, and may appoint one official as its alternate official representative to serve in the absence or inability to act of the principal representative.”

1. Election of Trustees

Regarding election of Trustees, under Section 5.3 of the League Bylaws, six members of the Board of Trustees will be elected at the annual meeting for a term of three years. The regulations of the Board of Trustees require the Nominations Committee to complete its recommendations and post the names of the nominees for the Board of Trustees on a board at the registration desk at least four hours before the hour of the business meeting.

2. Statements of Policy and Resolutions

Regarding consideration of resolutions and statements of policy, under Section 4.5 of the League Bylaws, the Board of Trustees acts as the Resolutions Committee, and “no resolution or motion, except procedural and incidental matters having to do with business properly before the annual meeting or pertaining to the conduct of the meeting, shall be considered at the annual meeting unless it is either (1) submitted to the meeting by the Board of Trustees, or (2) submitted in writing to the Board of Trustees by resolution of the governing body of a member at least thirty (30) days preceding the date of the annual meeting.” Thus, the deadline this year for the League to receive resolutions is **August 20, 2021**. Please submit resolutions to the attention of Daniel P. Gilmartin, Executive Director/CEO at 1675 Green Rd., Ann Arbor, MI 48105. Any resolution submitted by a member municipality will go to the League Board of Trustees, serving as the resolutions committee under the Bylaws, which may present it to the membership at the Annual Meeting or refer it to the appropriate policy committee for additional action.

Further, “Every proposed resolution submitted by a member shall be stated in clear and concise language and shall be accompanied by a statement setting forth the reasons for recommending the proposed resolution. The Board shall consider the proposal at a Board meeting prior to the next annual meeting and, after consideration, shall make a recommendation as to the advisability of adopting each such resolution or modification thereof.”

We love where you live.



3. Posting of Proposed Resolutions and Core Legislative Principles

The proposed Michigan Municipal League Core Legislative Principles and any new proposed Resolutions recommended by the Board of Trustees for adoption by the membership will be available on the League website, or at the League registration desk to permit governing bodies of member communities to have an opportunity to review such proposals and delegate to their voting representative the responsibility for expressing the official point of view of the member at the Annual Meeting.

The Board of Trustees will meet on Tuesday, September 21 at Amway Grand Hotel for the purpose of considering such other matters as may be requested by the membership, in addition to other agenda items.

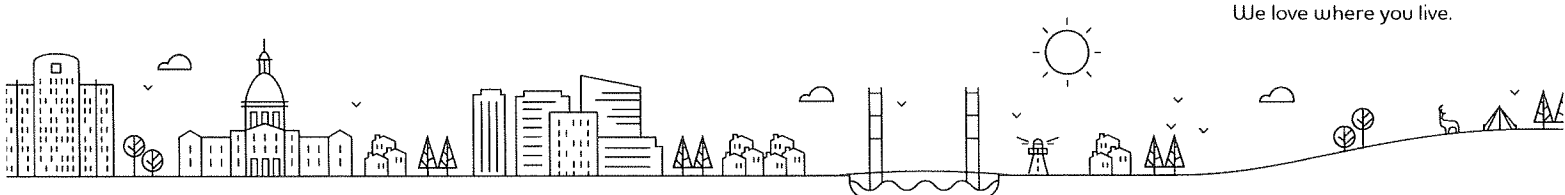
Sincerely,



William Wild
President
Mayor, City of Westland



Daniel P. Gilmartin
Executive Director & CEO



We love where you live.

VILLAGE MANAGER'S REPORT
CHRIS D. WILSON
JULY 16, 2021

American Rescue Plan Act – The Village has received official notification of the funds we will be receiving from the American Rescue Plan Act (ARPA). The Village will receive \$1.08 Million in ARPA funding. These funds can be allocated toward infrastructure projects or revenue replacement due to funds lost from the COVID pandemic. I anticipate that the Village will allocate these funds towards infrastructure projects. There is an application and registration deadline later this month that Village Administration is working toward meeting. Village Administration will be working with Council to identify a project or projects for these funds.

Demolition Fencing – An incident occurred this week in the Village where a house was demolished using heavy equipment without a construction fence around the site. Per the current Building Department Construction Site Maintenance Requirements construction fencing is required for sites where there is "...excavation and/or areas of construction..." This site included a home without a basement and a basement is not being dug for the new home. A construction fence was not a requirement for the demolition being performed at this site. After visiting the site, however, this operation was more intensive than I would prefer to be occurring without a fence. Not all demolition activities necessitate construction fencing. I did speak with the contractor on site and he was aware of our fencing regulations and that he was abiding by them and would have a construction fence on site prior to commencing construction. Further, the contractor did erect a temporary fence around the site that was not required based upon our conversation. I have discussed the matter with the Planning and Zoning Administrator and Building Official and I believe that we will be modifying our Construction Site Maintenance Requirements going forward to address similar large-scale demolitions in the future.

Public Services Director – Kevin Lawrence started work on July 12 as the new Public Services Director for the Village. Kevin most recently served as the Public Services Director for the City of Ecorse and prior to that held the same position at the City of Grosse Pointe. Kevin also worked in Facilities Maintenance and Management at Michigan State University and has served as the Operator in Charge for Metro Consulting Associates in Highland Park. Kevin has extensive experience in water, sewer and roads maintenance and administration and is a welcome addition to Village Administration.

Water and Sewer Rate Survey – The Southeastern Oakland County Water Authority has completed their annual water and sewer rate analysis for all SOCWA communities. I have included a copy of this analysis for your review.

Southfield Rd. Project – The Road Commission for Oakland County (RCOC) is taking input on a redesigned proposal for the modification of Southfield Rd. from south of Ten Mile to just north of 13 Mile Rd. This design envisions the construction of a divided boulevard through this area with either two or three through lanes. The project design can be viewed at <http://southfieldroadcorridor.com>. Comments will be accepted through July 23rd.

Village Meetings and Remote Participation – The Village has worked with BCTV to make modifications in our meeting room that we believe will allow us to continue to maintain remote participation as we return to in person meetings. There is a flat screen television in the corner of the meeting room that will be connected to a Zoom feed of the meeting in real time. Anyone wishing to speak to Council via zoom will be able to do so and will be seen live by those in the room on this screen. Zoom participants will be able to observe the proceedings through a static fixed camera in the Council room. BCTV has installed the necessary equipment to make this possible and also cut down on feedback into the room. Those wishing to just observe the meeting without participating are best served to either watch the live television broadcast or live stream because those will not be a fixed camera broadcast and will be able to alternate between live speakers. We will be live with this system for the first time Tuesday night and are hopeful it will function properly and serve the Council and community well. Thanks to BCTV and Clerk Rutkowski for helping put this in place.

SOCWA and SOCRRRA Officers – At the most recent Organizational Meetings for SOCWA and SOCRRRA officers were selected for the 2021/22 year. I have been selected to serve as the Chair for SOCRRRA for another year and vice-chair for SOCWA. This is largely based upon seniority as opposed to skill or insight, in my estimation.

SOCRRRA Drop-Off Center – I have included communication from SOCRRRA General Director Jeff McKeen hours and operations at the SOCRRRA facility on Coolidge. SOCRRRA is continuing to accept appointments for the general public to be able to dispose of material at the center as well as arranging several alternative locations for various items. SOCRRRA staff have made modifications to the existing appointment system to allow for more appointments and more next day appointments. In addition, SOCRRRA continues to host community events on weekends for drop off services and is now allowing for Saturday appointments at the facility. There have been some concerns expressed about no longer allowing open public access at the site as had been the case in previous years. SOCRRRA is attempting to make the site as available and accessible as possible while still maintaining operations as a transfer station that handles and process trash and recycling for tens of thousands of households on a daily basis.

**Quarterly Bill Based On
Water Consumption of 4,000 Cubic Feet and Served through a 5/8' Meter**

| <u>Municipality</u> | <u>Cost of Water</u> | <u>Meter Service Charge</u> | <u>Sewage Disposal</u> | <u>Water and Sewage Combined</u> | <u>Other</u> | <u>Total Bill</u> |
|---------------------|--------------------------|---------------------------------|----------------------------|--|--------------|-------------------|
| Berkley | 168.40 | 23.77 | 187.60 | | 72.17 | 451.94 |
| Beverly Hills | 88.52 | 0.00 | 262.20 | | 90.00 | 440.72 |
| Bingham Farms | 103.84 | 1.73 | 131.28 | | | 236.85 |
| Birmingham | 158.60 | 5.00 | 256.44 | | 58.50 | 478.54 |
| Clawson | 117.28 | | 330.84 | | 44.92 | 493.04 |
| Huntington Woods | | | | 606.80 | 17.00 | 623.80 |
| Lathrup Village | 174.96 | 7.95 | 342.44 | | 32.10 | 557.45 |
| Pleasant Ridge | 285.60 | 123.75 | 139.00 | | 75.53 | 623.88 |
| Royal Oak | 168.56 | 0.00 | 316.90 | | 14.00 | 499.46 |
| Southfield | 220.24 | 7.74 | 315.72 | | | 543.70 |
| LOW | | | | | | 236.85 |
| AVERAGE | | | | | | 494.94 |
| HIGH | | | | | | 623.88 |

(Served by 5/8"Meter)

AVERAGE COST PER 1,000 CU FT
BASED ON WATER CONSUMPTION OF:

| <u>Municipality</u> | 4,000 Cu Ft | 8,000 Cu Ft | 12,000 Cu Ft | 16,000 Cu Ft | 20,000 Cu Ft |
|---------------------|----------------|----------------|-----------------|-----------------|-----------------|
| Berkley | 112.99 | 100.99 | 97.00 | 95.00 | 93.80 |
| Beverly Hills | 110.19 | 98.94 | 95.19 | 93.31 | 92.19 |
| Bingham Farms | 59.21 | 59.00 | 58.92 | 58.89 | 58.87 |
| Birmingham | 119.64 | 111.70 | 109.05 | 107.73 | 106.94 |
| Clawson | 123.27 | 117.66 | 115.78 | 114.85 | 114.29 |
| Huntington Woods | 155.95 | 153.83 | 153.12 | 152.76 | 152.55 |
| Lathrup Village | 139.36 | 134.36 | 132.69 | 131.85 | 131.35 |
| Pleasant Ridge | 155.97 | 131.06 | 122.76 | 118.60 | 116.11 |
| Royal Oak | 124.87 | 127.35 | 128.18 | 128.59 | 128.84 |
| Southfield | 135.93 | 134.96 | 134.64 | 134.47 | 134.38 |
| LOW | 59.21 | 59.00 | 58.92 | 58.89 | 58.87 |
| AVERAGE | 123.74 | 116.98 | 114.73 | 113.61 | 112.93 |
| HIGH | 155.97 | 153.83 | 153.12 | 152.76 | 152.55 |

INPUT SOUGHT ON PROPOSED SOUTHFIELD ROAD IMPROVEMENT, MT. VERNON TO 13 MILE

The Road Commission for Oakland County (RCOC), in partnership with the communities of Southfield, Lathrup Village, Beverly Hills and Southfield Twp., is seeking input on the updated design concept for a future improvement to the Southfield Road corridor from just south of Mt. Vernon Road to approximately a quarter mile north of 13 Mile Road.

PROJECT DETAILS

The proposed improvement for the corridor is the result of several years of collaboration among the representatives of the four communities, the Road Commission and public input. The proposal calls for the reconstruction of this section of Southfield Road as a divided boulevard, with some sections having three through lanes in each direction and some having two through lanes in each direction.

The proposed design can be viewed at the project website: <http://southfieldroadcorridor.com>.

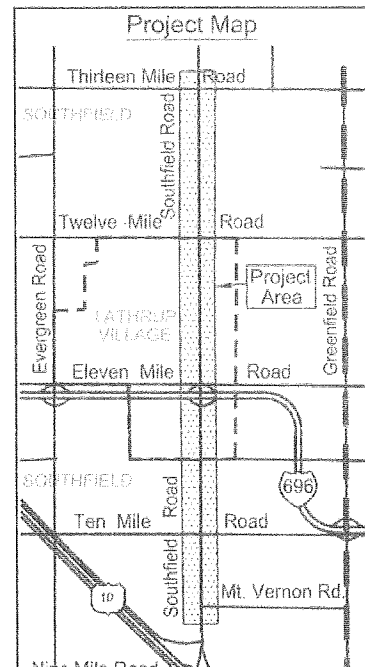
At this point, funding to reconstruct the road as proposed has not been identified. Therefore, there is no proposed time frame for when the improvement might take place.

HOW TO PROVIDE INPUT

Anyone wishing to provide input on the design concept for this section of Southfield Road may do so through July 23 through either of the following methods:

- E-mail the Road Commission at design@rcoc.org
- Call the Road Commission at 877-858-4804

Once the partners have received and incorporated public input, the preferred design will be submitted to



the Michigan Department of Transportation (MDOT) and the Federal Highway Administration (FHWA) for review and approval.

NEXT STEP

After MDOT and FHWA have completed their reviews of the design concept, a formal public hearing will be scheduled to provide the public with another opportunity to provide input. After that, final concept approval will be sought from MDOT and FHWA.

ADDITIONAL INFO

Additional information is available on the project page of the RCOC website (www.rcocweb.org). Simply click on the "Road Projects" button on the site home page and select "Southfield Road Environmental Assessment" from the list of projects.

For more information:

Call RCOC's Department of Customer Services at (877) 858-4804 or send us an email at dcsmail@rcoc.org or via the RCOC Website, www.rcocweb.org

July 8, 2021

Board of Trustees
SOCRRA

Subject: SOCRRA Drop-Off Center

Board Members:

We are continuing to open drop-off appointments throughout the day rather than open the entire day at one time. This includes opening 28 next day appointments every day. These changes have resulted in appointments being routinely available and have greatly reduced the number of resident complaints we are receiving. Approximately 20% of the residents that make appointments do not show up for their appointment. This percentage has been remarkably consistent for several months. Given this consistent, high level of no shows, we are increasing the number of available appointments by 28 per day in order to better meet the needs of our residents. We are continuing to closely monitor all aspects of the HHW appointments.

At the request of Mr. Markus, I developed the attached explanation of the decisions we made regarding the drop-off center. Mr. Markus requested that I share this explanation with the Board. An abridged version of this document has been posted on our website since mid-June.

SPECIAL EVENTS

Our final drop-off event for the spring was held on Saturday June 12, 2021 at our facility on Coolidge. We asked residents to make appointments for this event in order to control traffic entering our facility from Coolidge. A total of 738 vehicles were serviced at the event. We had 720 appointments scheduled but 191 people (27%) did not show up for their appointment. We also had 209 residents that did not make appointments. We accepted the residents without appointments due to confusion caused by relocating the event from Royal Oak High School. The appointments were successful in controlling traffic into our site without causing traffic issues on Coolidge. We used JVS for electronics recycling as a method of reducing the cost of the event. We have not yet received the invoices from the contractors that we need to calculate the cost of the event.

The vehicle count for this event was comparable to the Troy and Oak Park events that were conducted earlier this year. However, the vehicle counts in 2021 have been less than the vehicle counts in 2020.

We will be offering regular appointments one Saturday per month during July and August. The first of those will be on Saturday, July 17. We will be providing 280 appointments on July 17, which is the largest number of appointments we have provided except for the June special event at the MRF.

We are re-evaluating our plans for special events for the fall. While our events this spring went very well, we did not obtain the number of participants that we had planned for.

SOCRRA staff also worked with Lathrup Village and Ferndale to conduct community specific events this spring. We will also be working with the member communities to discuss community specific events this fall.

ALTERNATIVE DROP-OFF OPTIONS

We are continuing to provide several alternative locations for drop-off services. All services are at no cost to the residents and do not require appointments. The details are attached and are also available on our website at <https://www.socrra.org/news/2020/5/28/alternatives-for-hazardous-waste-electronics-and-paper-shredding>.

The summary version is:

- Electronics can be brought to e-Cycle Opportunities (JVS) in Southfield or ERG in Livonia.
- Household Hazardous Waste can be brought to ERG in Livonia. Monday – Friday drop-off can be done with no appointment.
- Paper, cardboard, scrap metal and paper shredding can be brought to GFL Environmental in Royal Oak.
- Plastic bags can be returned to the Target, Kroger and Kohls stores located immediately north of the MRF, in the Meijer store immediately east of the MRF and at other Target, Kroger, Kohls and Meijer stores in the area.

Respectfully submitted,

Jeffrey A. McKeen, P.E.
General Manager

Suggested Resolution: "That the report on the SOCRRA Drop-Off Center be received and filed."



Berkley • Beverly Hills • Birmingham • Clawson • Ferndale • Hazel Park • Huntington Woods • Lathrup Village • Oak Park • Pleasant Ridge • Royal Oak • Troy

ALTERNATIVES AVAILABLE TO SOCRRA RESIDENTS FREE OF CHARGE

ERG Environmental Services Phone: 734-437-9650

Electronics Recycling and Household Hazardous Waste Disposal (computers, TVs, cell phones, VCRs, video equipment, paint, household cleaners, medications, sharps, auto fluids, pesticides, etc. – visit www.socrra.org for a complete list)

- Location: 13040 Merriman Road, Livonia (Use visitor entrance, enter off Industrial Road)
- Hours: M – F 9AM – 5PM
- Must have ID showing residency from a SOCRRA community, Bingham Farms, the City of Bloomfield Hills or Franklin Village or **printed** paper voucher for Rochester and Rochester Hills residents -- purchase from city
- Ring doorbell and RETURN TO YOUR CAR. Attendant with PPE will unload your items

eCycle Opportunities (JVS facility) Phone: 248-233-4477

Electronics Recycling ONLY (computers, TVs, cell phones, VCRs, video equipment, etc. – visit www.socrra.org for a complete list)

- Location: 29699 Southfield Road, Southfield – part of the JVS building
- Hours: M – F 8AM – 4PM
- Must be resident of a SOCRRA community, Bingham Farms, the City of Bloomfield Hills or Franklin Village or bring **printed** paper voucher for Rochester and Rochester Hills residents -- purchase from city
- Go to warehouse door on south side of building (next to Arby's), place electronics in bin or on ground if they are large. Ring doorbell for assistance with heavy items

GFL Recycling Phone: 248-541-4020

Drop-off Paper Shredding and Cardboard/Paper and Scrap Metal Recycling

- Location: 414 E. Hudson, Royal Oak
- Hours: M – F 7AM – 4PM
- Procedure: **MASKS ARE REQUIRED**
 - Shredding – main building entrance; NOT self-service – leave papers with attendant
 - Cardboard/Paper and Scrap Metal recycling -- drive into truck entrance; open top dumpsters to self-unload

SOCRRA's main function is to provide and manage the CURBSIDE collection of trash, recycling and yard waste in our 12 SOCRRA communities and we remain open and fully functional for these ESSENTIAL services.

We are assessing if/when we will reopen for the other SUPPLEMENTAL services we have provided in the past. Please be patient while we determine the safest solutions for our staff and the people who use our services.

Beverly Hills Public Safety Activity Report

June 24- July 16, 2021

- The Public Safety Department is currently looking for applicants for Public Safety Officer. Please visit our website, www.beverlyhillspolice.com to see if you qualify.
- For more information on Coronavirus Disease and vaccine please visit;
<https://www.cdc.gov/coronavirus/2019-ncov/index.html>
<https://www.ready.gov/>
<https://www.Michigan.gov/coronavirus>
<https://www.oakgov.com/covid/Pages/default.aspx>
<https://oaklandcountyvaccine.com>
Crimedat is down and hopefully be up next week due to I.T. issues.

CALLS FOR SERVICE

- 476 Calls for Service.
- 129 Tickets issued.
- 9 Arrests.
- 110 Property/School check.
- 2 Gun Permit.
- Medical on Evergreen.
- Crime prevention on Southfield.
- Crime prevention on 13 Mile.
- Gun permit at station.
- Welfare check on Downing place.
- Lift assist on Village Pines.
- Crime prevention on Beverly.
- Assist motorist 13 Mile.
- Crime prevention Dover.
- Crime prevention on Bellvine.
- Lift assist on Sheridan.
- Medical on Charrington.
- Family trouble Gould court.
- Radar enforcement on Sheridan.
- Alarms of Locherbie.
- Reckless driving 13 Mile.
- Traffic violation on 13 Mile.
- Crime prevention Kinross.

- Crime prevention Beverly.
- Suspicious persons on Evergreen.
- Suspicious W. Rutland.
- Radar enforcement 14 Mile.
- Crime prevention on 13 Mile.
- Radar enforcement on Southfield.
- Suspicious and Southfield rd.
- Suspicious persons Southfield.
- Crime prevention Beverly.
- Crime prevention on Southfield.
- Crime prevention on 13 Mile.
- Miscellaneous detail on 13 Mile.
- Crime prevention on Kinross.
- Crime prevention on Wilshire.
- Radar enforcement on 14 Mile.
- Radar enforcement on Waltham.
- Crime prevention on Southfield.
- Crime prevention on Evergreen.
- Medical on 13 Mile.
- Miscellaneous details on 13 Mile.
- Radar enforcement on 13 Mile.
- Crime prevention on Kinross.
- Crime prevention on Dunblaine.
- Operation medicine cabinet.
- Crime prevention on Bedford.
- Found property on Kinross.
- Radar enforcement on 13 Mile.
- Assist citizen on Locherbie.
- PBT test at station.
- Officers stopped a vehicle on 14 Mile road for a minor traffic issues. The subject was arrested for Driving While License Suspended without incident. Subject had several other warrants but the police agency would not pick up. Cited and released.
- Radar enforcement on Lahser.
- Crime prevention on Foxboro.
- Ordinance violation on Foxrun.
- Park and recreation checks at Beverly Park.
- Suspicious persons on Sleepy Hollow.
- Alarm on Camelot.
- Crime prevention on Beverly.
- Radar enforcement on 14 Mile.
- Suspicious circumstance on Rutland.
- Crime prevention on Kinross.
- Selective enforcement on Evergreen.

- Crime prevention on Southfield.
- Crime prevention on 13 Mile.
- Crime prevention on 13 Mile.
- Open building on Chelton.
- Crime prevention on Waltham.
- Medical at Village Pines.
- Selective enforcement on Fairfax.
- Crime prevention on Tremont.
- Fire truck checks.
- Private property hit and run on Southfield.
- Public relations on Georgetown.
- Public relation on Sleepy Hollow.
- Alarm on Devonshire.
- Animal complaint on Lahser.
- Medical on Rutland.
- Fire alarm on Beechwood.
- Pbt test at station.
- Carbon monoxide alarm on Bellvine.
- Felony arrest on a drunk driver (III) at Taylor police. Subject was arrested and lodged at the Oakland county jail without incident.
- Park and recreation checks.
- Suspicious person on Evergreen.
- Suspicious circumstances on Southfield.
- Crime prevention on Beverly.
- Selective enforcement on 14 Mile.
- Crime prevention on 13 Mile.
- Officers stopped a vehicle for speeding on 14 Mile and arrested and released the driver for Driving While License Suspended. Subject had several other warrants but was released to the police agency would not pickup. Subject was arrested without incident.
- Crime prevention on Southfield.
- Selective enforcement Lahser.
- Crime prevention on Kinross.
- Radar enforcement on Lahser.
- Fire alarm on Eastlady.
- Suspicious persons on Leemoor.
- Animal complaint on Birwood.
- Found property (cell phone) on 13 Mile.
- Operation medicine cabinet.
- Crime prevention on Southfield.
- Crime prevention on 13 Mile.
- Alarm on Madoline.
- Medical on Evergreen.
- Crime prevention on Pierce.

- Selective enforcement on Greenfield.
- Traffic complaint Beverly
- Officers arrested a subject who had overdosed and was inside a running car on Birwood. The subject was unconscious and Officers applied narkan to the subject. The subject was taken to Beaumont Hospital and cited.
- Crime prevention at Huntley Square.
- Crime prevention on Beverly
- Crime prevention on 14 mile.
- Radar enforcement on Lahser.
- Crime prevention on Churchill.
- Open building on Pickwick.
- Crime prevention Hampton.
- Selective enforcement on Norchester.
- Medical on Eastlady.
- Crime prevention on Southfield.
- Suspicious persons on Nottingham.
- Crime prevention on 13 Mile.
- Selective enforcement on Greenfield.
- Crime prevention on Churchill.
- Found property (returned) on 13 Mile.
- Crime prevention on 13 Mile.
- Crime prevention on Huntley Square.
- Alarm on Chelton.
- Officers stopped a subject for a minor traffic issue. The driver was arrested for Driving While License Suspended without incident.
- Crime prevention on Metamora.
- Crime prevention on Eastlady.
- Alarm on Riverside. 3187
- Radar enforcement on Riverside.
- Assist citizen on Chelton.
- Radar enforcement Evergreen.
- Suspicious persons on Birwood.
- Wires down on Lahser.
- Traffic crash on 13 Mile.
- Wires down on Kirkshire.
- Wires down on Crossbow.
- Wires down on Westlady.
- Wires down on Robinhood.
- Wires down on Lahser.
- Wires down on Bellvine.
- Road hazard Hill crest.
- Wires down on Robinhood.
- Road hazard Nottingham.

- Road hazard on 14 Mile.
- Crime prevention on Churchill.
- Traffic complaint on Nottingham.
- Traffic complaint on 14 Mile.
- Crime prevention on Churchill.
- Alarm on Camelot.
- Crime prevention on Bellvine.
- Wires down on Lahser.
- Road hazard on 13 Mile.
- Crime prevention on Beverly.
- Crime prevention on 13 Mile.
- Crime prevention on Southfield.
- Officers stopped a car for a minor traffic violation and discovered a loaded handgun inside the on 13 Mile. The gun was recovered from the glove box and the driver was arrested without incident.
- Carbon monoxide alarm on Orchard.
- Crime prevention on Robinhood.
- Radar enforcement on Greenfield.
- Road hazard on Southfield.
- Radar enforcement on Greenfield.
- Road hazard on Southfield.
- Alarm on Marlin.
- Medical on Kirkshire.
- Traffic complaint on Southfield.3220
- Medical on 13 Mile.
- Traffic crash on 14 Mile.
- Medical on Evergreen.
- Careless driving on Riverside.
- Odor investigation on Hill crest.
- Odor investigation on Bellvine.
- Traffic crash on Southfield.
- Alarm on Old Post.
- Parking complaint on Plantation.
- Traffic complaint on 13 Mile.
- Medical on Elizabeth.
- Radar enforcement on Lahser.
- Crime prevention on Beverly.
- Traffic complaint on 14 Mile.
- Traffic complaint on 14 Mile.
- Traffic complaint on Southfield.
- Officers stopped a car for a minor traffic offense and arrested the driver without incident. The driver was charged with Driving While License Suspended and had several other warrants from other police agencies.
- Suspicious person on Pierce.

- Officers stopped a car for a minor traffic offense and arrested the driver for a misdemeanor traffic offense from this police agency. The driver was also cited for Driving While License Suspended. The arrest was without incident.
- Crime prevention on Hill Crest.
- Select enforcement on 14 Mile.
- Suspicious circumstances on Southfield.
- Carbon monoxide Beverly road.
- Crime prevention 13 Mile.
- Radar enforcement on 14 Mile.
- Juvenile complaint on 14 Mile.3245
- Mental health call on Elizabeth.
- Radar enforcement on Lahser.
- Reckless driving on 14 Mile.
- Selective enforcement on Beverly.
- Civil matter on Saxon.
- Crime prevention on Southfield.
- Miscellaneous detail on Southfield.
- Carbon monoxide on Dunblaine.
- Traffic crash on Lahser.
- Crime prevention on 13 Mile.
- Smoke investigation on 13 Mile.
- Traffic complaint on Beverly.
- MDOP, spray painting on road way on Mayfair.
- Officers stopped a vehicle for a minor traffic offense and discovered the driver was Driving While License was Suspended. The driver also had a warrant for Retail Fraud. Subject was arrested without incident.
- Crime prevention on Southfield.
- Medical on Warwick.
- Open building on Evergreen.
- Assist citizen on Bellvine.
- Suspicious circumstance on Beverly.
- Radar enforcement on Lahser.
- Selective enforcement on Beaconsfield.
- Crime prevention on Beverly.
- Wires down on Bellvine.
- Operation medicine at the station.
- Damage to property on Riverside, graffiti on stop sign.
- Suspicious person on 13 Mile.
- Crime prevention on Southfield.
- Crime prevention on 13 Mile.
- Assist citizen on Beechwood.
- Alarm on Crossbow.
- Medical on Bellvine.

- Juvenile comp on 13 Mile.
- Alarm on Elizabeth.
- Crime prevention on Beverly.
- Crime prevention on Beverly.
- Crime prevention on Riverside.
- Reckless driving on Evergreen.
- Sprayed graffiti on stop sign and pavement, Riverside.
- Suspicious circumstance Evergreen.
- Suspicious persons on Locherbie.
- Suspicious vehicle on Beverly.
- Ordinance violation on 14 mile.
- Medical at Village drive.
- Assist Citizen McKenzie.
- Crime prevention on Riverside.
- Crime prevention on 13 Mile.
- Miscellaneous detail on 13 Mile.
- Radar enforcement on Beverly.
- Alarm on Chelton.
- Crime prevention on 13 Mile.
- Pbt test at the station.
- Crime prevention on Beverly.
- Traffic complaint on Kennoway.
- Assist motorist Southfield.
- Assist citizen on Elizabeth.
- Assist motorist and 13 Mile.
- Medical on Village drive.
- Fire trucks checks.
- Stolen chairs at Huntley square.
- Alarm on Spruce.
- Crime prevention on 13 Mile
- Crime prevention on Wilshire.
- Open building on Sunset.
- Officers stopped a vehicle for weaving in the road way on Pierce. The subject was arrested for drunk driving without incident.
- Assist citizen on Buckingham 3315
- Intelligence information taken at the station.
- Probation violation arrest from the 46th District court.
- Operation medicine cabinet.
- Hospice death at Mission Point.
- Alarm on Woodhaven.
- Medical on Mayfair.
- Suspicious person on Breezewood.
- Juvenile complaint on Beverly (school). Five kids were escorted to the Public Safety Department and their parents came to get them.

- Welfare check at Huntley Square.
- Suspicious person on Locherbie.
- Selective enforcement on 14 Mile.
- Assist citizen on 13 Mile.
- Park and recreation checks.
- Suspicious persons on Riverside.
- Officers stopped a driver for speeding 58/45 mph on Southfield road. The driver was arrested for Drunk Driving without incident. The officers had to obtain a search warrant for the driver's blood and the driver was then jailed. Officers also found open intoxicants in the vehicle.
- Crime prevention on 14 Mile.
- Crime prevention on 13 Mile.
- Crime prevention on 13 Mile.
- Crime prevention on Southfield.
- Fleeing and eluding on Southfield. Motorcycle speeding through neighborhood slowed down to stop and took off again once back on the Southfield. Chase had to be terminated.
- Open building on Sunset.
- Selective enforcement on Waltham.
- Crime prevention on Ronsdale.
- Crime prevention on Beverly.
- Alarm on 13 Mile.
- Radar enforcement on Lahser. 3342
- Reckless driving on 13 Mile.
- Radar enforcement on Hillview.
- Suspicious person on Nottingham.
- PBT test at the station.
- Officers picked up a Felon from the Monroe county jail who was wanted for Felony credit card from the Village. The arrest was without incident.
- Officers observed a vehicle speeding 41/25 on Greenfield road. The subject was arrested for Driving While License Suspended without incident.
- Officers stopped a driver for a minor traffic issue. Subject was arrested for Drunk driving and minor in possession of alcohol. Subject refused to cooperate with the officers in regards to sobriety testing and PBT. Subject was arrested without incident.
- Parks and recreation checks.
- Crime prevention on Chelton.
- Officers observed two juveniles out past curfew on Birwood driving a moped and a small motorcycle. The two were stopped and the father was made aware of the situation. The driver of the motorcycle was issued a citation the other got a warning.
- Crime prevention on 13 Mile.
- Crime prevention on Southfield.
- Radar enforcement on 14 Mile.

- Crime prevention on Southfield.
- Crime prevention on 14 Mile.
- Crime prevention on Beverly. 3361
- Radar enforcement o Lahser.
- Alarm on Elizabeth.
- Prisoner transport from Birmingham to court.
- Wires down on Beaconsfield.
- Wires down on Dunblaine.
- Fraud on Chelton.
- Private property crash on 13 Mile.
- Suspicious persons on Beverly.
- Traffic crash on Dunblaine.
- Alarm on Kennoway.
- Crime prevention on 13 Mile.
- Welfare check on Beverly.
- Crime prevention on Pierce.
- Smoke investigation on Dunblaine.
- Selective enforcement on Southfield.
- Officers stopped a vehicle driving the wrong way on Greenfield road. The subject was arrested without incident for Driving While License Suspended.
- Crime prevention on Beverly.
- Crime prevention on Huntley Square.
- Officers stopped a vehicle on Southfield for blocking the lane and arrested the driver for Failure to have a Michigan License (never acquired) without incident.
- Carbon monoxide check on Englewood.
- Officers stopped a vehicle for a minor traffic violation and arrested the driver for Driving While License Suspended without incident.
- Officers stopped a vehicle traveling 69/45 mph on Southfield. The driver was arrested for Drunk driving without incident.
- Officers arrested a subject for Drunk driving on Southfield road. The subject refused a breath test and a search warrant was obtained for the driver's blood. The subject was arrested and lodged without incident.

FIRE PREVENTION

- 58 Fire/EMS reports reviewed
- 6 Fire training hours entered into ISO records
- 11 EMS training hours entered into continuing education records.
- Bi-Weekly NFIRS data export uploaded to FEMA.
- 2 Training Orders issued.
- Supervise Road Patrol.
- Meet with vendor regarding hydrant gate valves.

- Attend County Training Committee Meeting.
- Annual ladder testing and certification completed.
- Breathing air compressor and cascade system installed.
- Supervise Road Patrol.
- Attend Wednesday Wrap Up with the State Fire Marshal via teleconference.
- Management of Bryx call alerting system for new PSO.
- Birmingham PD Access cards obtained for new employees.
- Course management for SOFA Basic Fire Equipment Operator - 2021-2-63-Q54F-0123.
- Review monthly observation reports of new officers in field training program.
- Supervise Road Patrol.

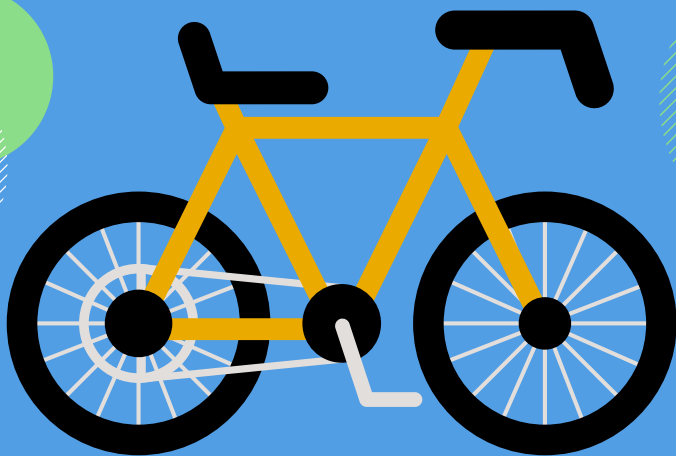
INVESTIGATIONS

- CFS Closed and reviewed 335.
- Reviewed 41 case reports for a disposition.
- Followed up and reviewed cases of which 28 were closed and 13 remained open.
- 13 Case were assigned.
- 10 Reports written on current cases.
- 27 Current active investigations.
- 1 Current pending investigations.
- Followed up on 5 OWI Investigations.
- Followed up on MDOP Village property was tagged, possible suspect Identified.
- Followed up on fraud Verizon Account.
- Probation Violation followed up.
- Larceny of patio furniture.
- Arraigned on Fraud warrant.
- 46th DC Traffic Conference.
- Pre Trial 46th DC.
- BYA referral X5 (juveniles).
- Pediatric video training.

Beverly Hills

Inside | Out Bike Ride

Join us for a biking tour of the DIA art reproductions in the Village of Beverly Hills on the evening of Thursday, July 22, 2021. The ride will leave from Beverly Park (18801 Beverly Road) promptly at 6:30 p.m. The ride will visit the Inside | Out reproductions installed at Riverside Park, Auburn/Beverly, and Pinecone Patch. When we return to Beverly Park, we will walk to visit the art installations there. Docent provided information will be presented at each stop. This is a slow-paced 5.5-mile ride suitable for adults 18 and over. Everyone is required to wear a helmet.



Please register in advance:
<https://www.signupgenius.com/go/9040F44A4AF2FA46-diainsideout>



PARKS & RECREATION





- 1 Beverly Hills Village Park**
18801 Beverly Rd
The Wedding Dance, Pieter Bruegel



- 2 Beverly Hills Village Park**
18801 Beverly Rd
Head of a Woman, Unknown Artist, Egyptian



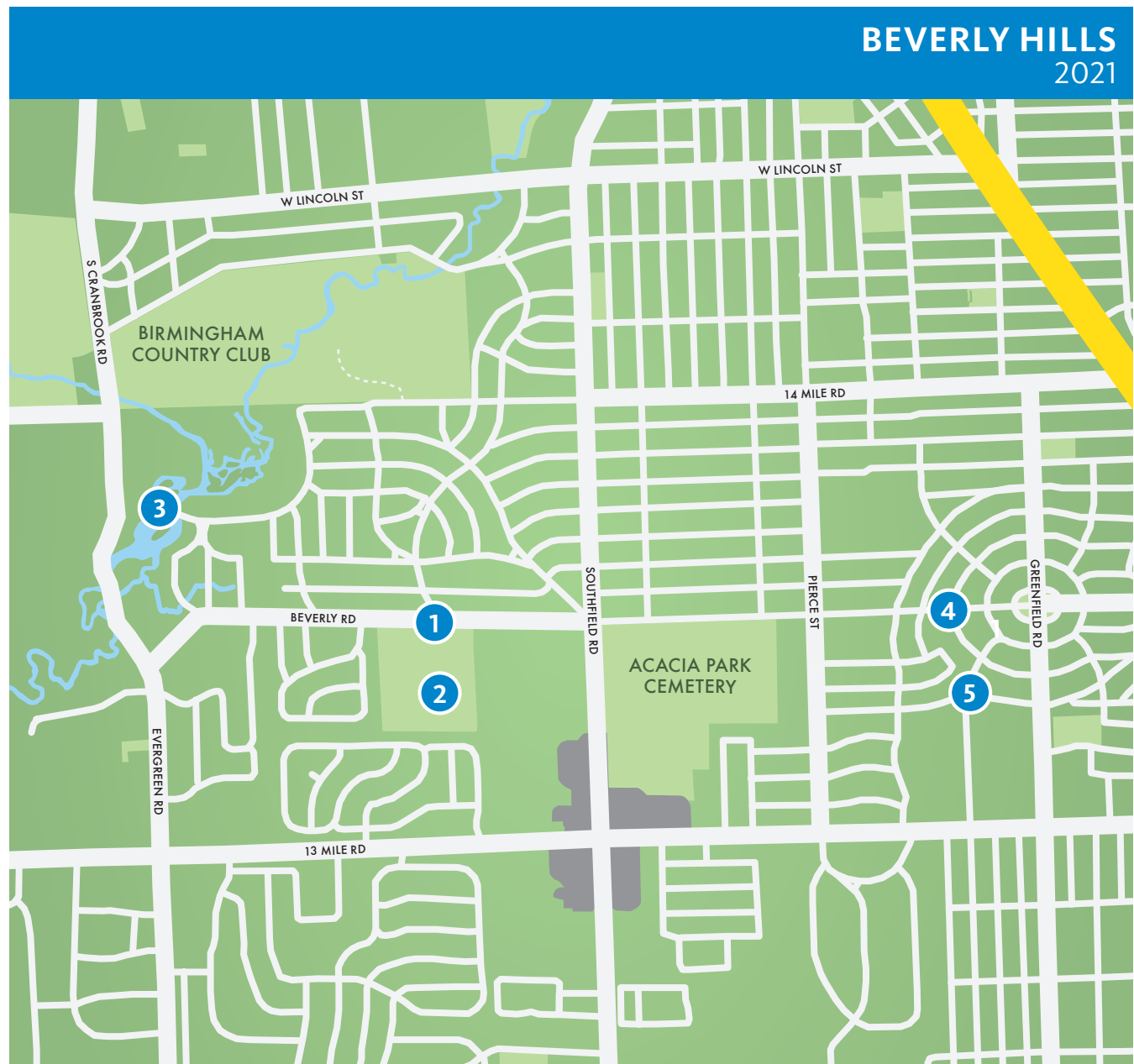
- 3 Beverly Hills Riverside Park**
The Lily Pond, Charles Harry Eaton



- 4 Auburn and Beverly**
Girl and Laurel, Winslow Homer



- 5 Pinecone Patch at Fairfax and Glencoe**
Violinist and Young Woman, Edgar Degas



Inside|Out brings reproductions of great treasures from the Detroit Institute of Arts into your community. Discover them all around town. Visit dia.org/insideout for maps of other communities and information on upcoming programs.

Use hashtags [#DIAInsideOut](https://twitter.com/DIAInsideOut) and [#InsideOutUSA](https://twitter.com/InsideOutUSA) to post your experience! Follow us on:



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The Village of Beverly Hills Parks and Recreation Board Proudly Presents:

MOVIE IN THE PARK
AUGUST 24, 2021 AT DUSK
BEVERLY PARK



ROAD COMMISSION

for OAKLAND COUNTY

PRESS RELEASE PRESS RELEASE

FOR IMMEDIATE RELEASE: July 13, 2021



Contact: Craig Bryson, Public Information Officer, (248) 645-2000, ext. 2202 (e-mail: cbryson@rcoc.org)
Visit RCOC online at www.rcocweb.org

RCOC SEEKING PARTNERS TO HELP BEAUTIFY COUNTY; NEXT OPPORTUNITY FOR ADOPT-A-ROAD CLEAN-UP IS JULY 17-25

Beverly Hills, MI — Tired of noticing too much roadside litter? If so, the Road Commission for Oakland County (RCOC) has the perfect opportunity for you: There are many Oakland County roads still available as part of the Adopt-A-Road program.

“This is a great opportunity for the public to help clean-up our environment and beautify Oakland County communities,” RCOC Chair Andrea LaLonde stated. “Over the years, groups and organizations have committed volunteer time to clean-up our communities by clearing litter along roadsides. They are tremendous partners in this effort and greatly appreciated.”

Volunteer groups that adopt a road segment are asked to pick up litter along the road during two of the three available clean-up periods each year (spring, summer and fall). The spring 2021 clean-up period was April 17-25. Leaving July 17-25 and September 25-October 3 as the two remaining periods.

Any group interested in adopting a county road section should call the RCOC Permits Division at (248) 858-4891 or send an email to: adoptaroad@rcoc.org. Anyone interested will receive training, orange safety vests and garbage bags. If requested, RCOC will also provide masks for volunteers.

Additionally, RCOC will erect Adopt-A-Road signs at both ends of the designated road sections recognizing the volunteer groups responsible for the sections. Road segments are approved by the RCOC Board of Road Commissioners.

--- MORE ---

ADOPT-A-ROAD SUMMER CLEAN-UP / 2 OF 2

Participating groups are reminded to call the RCOC Permits Division to arrange pick up of litter bags after the clean-up. Additionally, RCOC relies on groups to call and verify the contact information is current. Groups needing additional garbage bags or orange vests can also call the Permits Division.

Motorists can help augment the effort by slowing down when volunteers are picking up trash along a road and by joining the RCOC in reminding others not to litter.

Approximately 521 miles of RCOC roadways have been adopted by 314 groups and organizations. For more information about the Adopt-A-Road program, visit: <http://www.rcocweb.org/218/Adopt-A-Road>.

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