

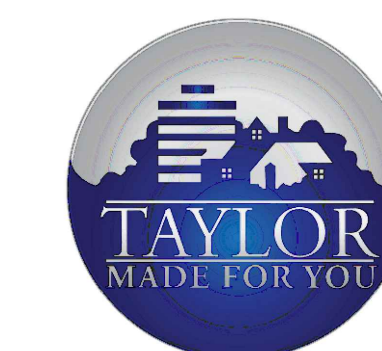


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Corporate Headquarters
45650 Grand River Ave.
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Ph: (248)349-4500 • Fax: (248)349-1429

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Client:

City of Taylor
23555 Goddard Rd.
Taylor, MI 48180

Project:

City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180

Seal:



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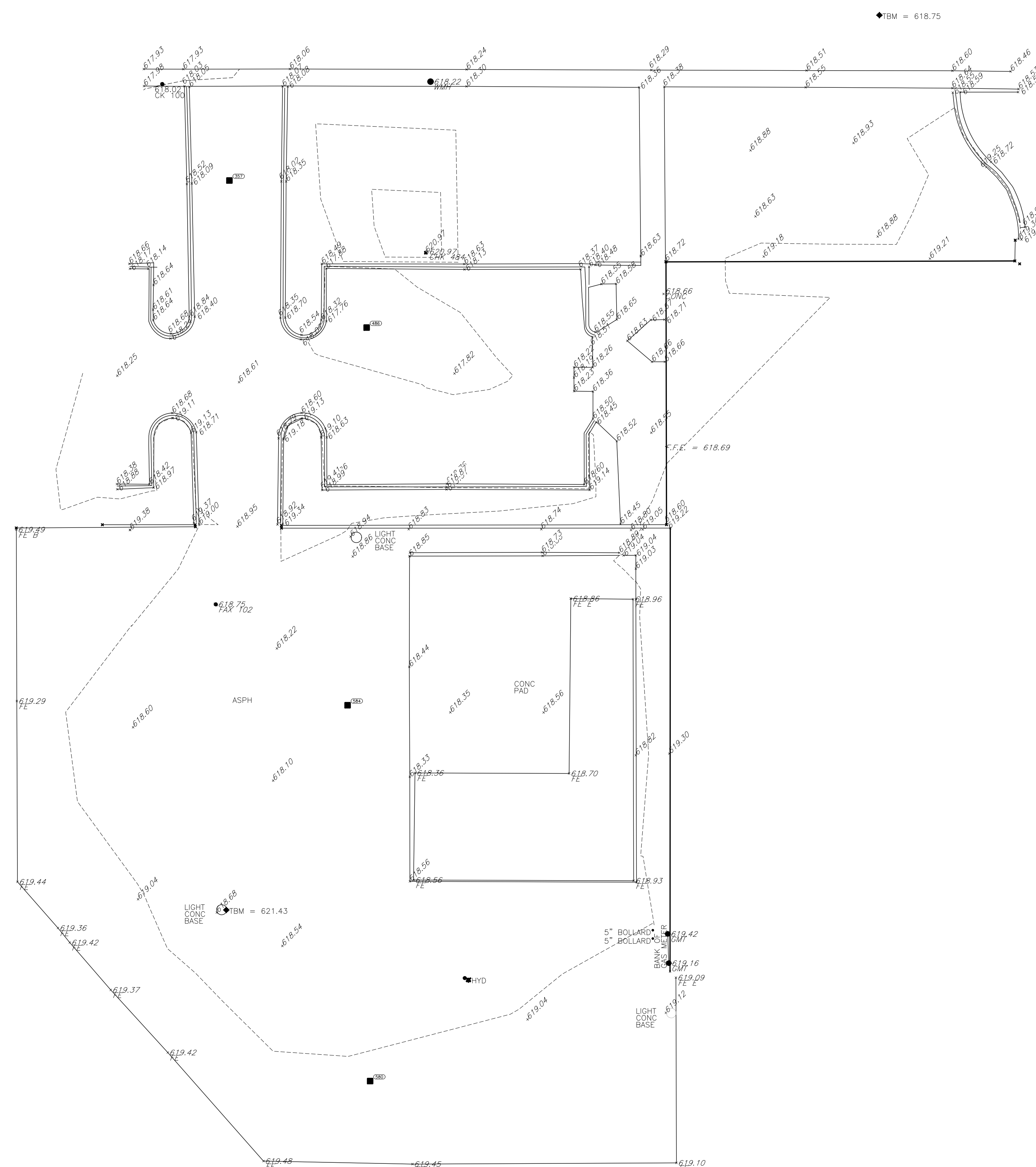
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Sheet Title:
**TOPOGRAPHIC
SURVEY**

Project Number: 22712.A

Sheet Number: **C-100**

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TOPOGRAPHIC SURVEY
SCALE: 1" = 20'-0"



LEGEND:

(X) →	KEY NOTE
---	ITEM TO BE REMOVED

- GENERAL NOTES:**
- A. REFER TO SHEET C-121 FOR DETAILED SITE DIMENSIONS AND ADDITIONAL INFORMATION.
 - B. REFER TO SHEET C-130 FOR GRADING PLAN.
 - C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
 - D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
 - E. REFER TO ARCHITECTURAL AND MEP PLANS FOR FURTHER INFO.

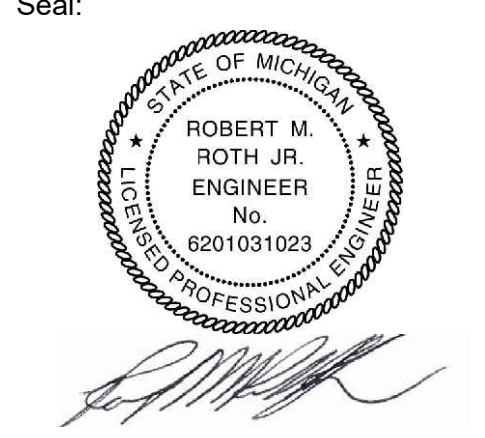
- DEMOLITION SITE PLAN NOTES:**
- 1 MAJORITY OF DEMOLITION WORK TO BE CONTAINED WITHIN GRAY SHADED AREA. REFER TO C-140 FOR UNDERGROUND UTILITY WORK.
 - 2 REMOVE LANDSCAPING LOCATED AT THIS NORTHEAST CORNER OF THE BUILDING.
 - 3 REMOVE EXISTING LETTERING ON MONUMENT SIGN.
 - 4 REMOVE FIRE HYDRANT
 - 5 STORM DRAIN TO REMAIN
 - 6 FIRE HYDRANT TO REMAIN
 - 7 LIGHT POLE TO REMAIN
 - 8 WATER SHUT-OFF VALVE TO REMAIN
 - 9 FDC TO BE REMOVED & RELOCATED
 - 10 REMOVE CANOPY SUPPORT COLUMNS. (4) LOCATIONS
 - 11 REMOVE MASONRY WALL & FOOTING
 - 12 MASONRY WALL TO REMAIN
 - 13 FENCE TO REMAIN
 - 14 REMOVE PAVING
 - 15 REMOVE CURB
 - 16 WALL MOUNTED METERS TO REMAIN. REFER TO MEP PLANS
 - 17 CURB REMOVAL TO STOP AT THIS APPROXIMATE LOCATION
 - 18 REMOVE EXISTING LIGHT POLE IN ITS ENTIRETY
 - 19 REMOVE EXISTING LIGHT POLE. CONCRETE BASE TO REMAIN
 - 20 EXISTING LAWN SPRINKLER CONTROL BOX TO BE PROTECTED DURING CONSTRUCTION. EXISTING SPRINKLER LINES SHALL BE LOCATED PRIOR TO CONSTRUCTION AND PROTECTED TO THE BEST OF THE GC'S ABILITY.



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Sheet Title:
DEMOLITION
SITE PLAN

Project Number: **22712.A**

Sheet Number: **C-110**

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DEMOLITION SITE PLAN
 SCALE: 1" = 20'-0"

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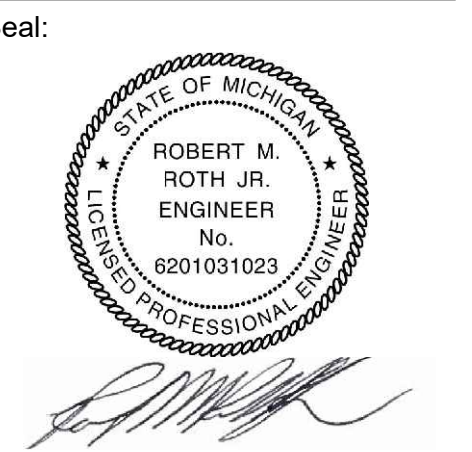
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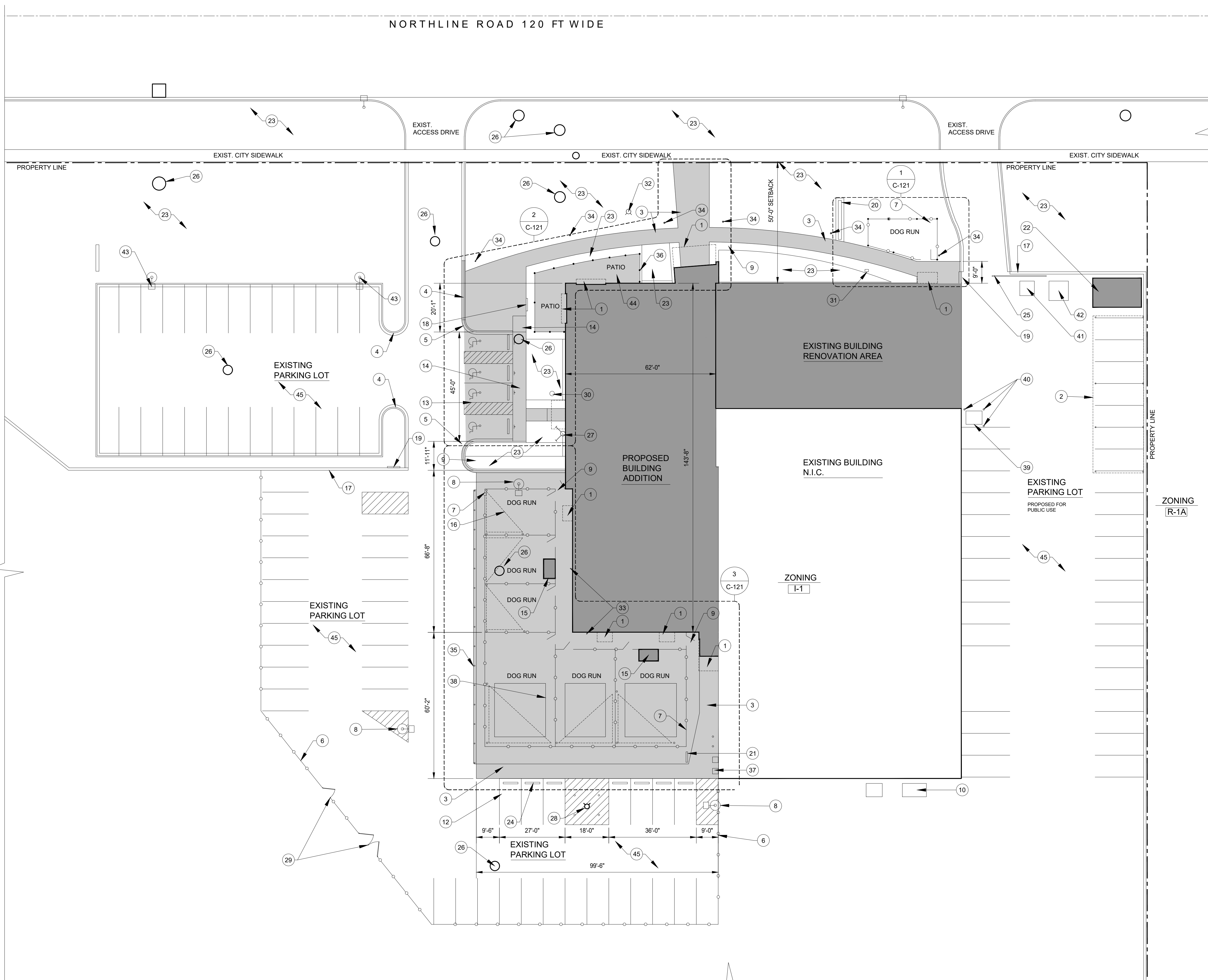
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Sheet Title:
**PROPOSED
SITE PLAN**

Project Number: **22712.A**

Sheet Number: **C-120**

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LEGEND:

- AREA OF RENOVATION, NEW BUILDING ADDITION, AND STORAGE SHEDS
- AREA OF NEW EXTERIOR PAVING AND CURBS. SEE DETAILS C-130

GENERAL NOTES:

- A. REFER TO SHEET C-121 FOR DETAILED SITE DIMENSIONS AND ADDITIONAL INFORMATION.
- B. REFER TO SHEET C-130 FOR GRADING PLAN.
- C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
- D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
- E. REFER TO ARCHITECTURAL AND MEP PLANS FOR FURTHER INFO.

SITE PLAN NOTES:

- 1 NEW CANOPIES AT DOORS
- 2 NEW FIXED CARPORT AT 7 SPACES. SEE BID ALTERNATE CS-001
- 3 NEW WALK. SEE PAVING DETAIL C-130
- 4 EXISTING CURB
- 5 NEW CURB. SEE DETAIL C-130.
- 6 EXISTING FENCING
- 7 NEW 8'-0" VINYL COATED CHAIN-LINK FENCING (NO-CLIMB SIZE)
- 8 EXISTING LIGHT POLE
- 9 GATE TO BE EQUIPPED WITH ELECTRIC SECURITY ACCESS LATCH/LOCK.
- 10 EXISTING ELECTRICAL TRANSFORMER
- 11 EXISTING PARKING SPACES
- 12 NEW PARKING SPACES
- 13 4 NEW ADA PARKING SPACES
- 14 NEW ADA WALKWAY RAMP
- 15 NEW PLASTIC STORAGE BIN/SHED. GC TO PROVIDE \$800.00 ALLOWANCE PER UNIT.
- 16 NEW SHADE SAIL CANOPIES WITHIN EACH DOG RUN. CANOPY TO INCLUDE (3) 4" STEEL TUBE SUPPORT COLUMNS AT 12'-0" HEIGHT. SUPPORTS SHALL BE SECURED WITHIN A 12" DIA. CONCRETE POST FOOTING.
- 17 EXISTING WALL
- 18 NEW DIRECTIONAL SIGNAGE
- 19 NEW SIGNAGE ON WALL
- 20 NEW LETTERING ON EXISTING MONUMENT SIGN
- 21 NEW 'FIRING RANGE' SIGN
- 22 NEW WOOD STORAGE SHED. GC TO PROVIDE \$12,000.00 ALLOWANCE.
- 23 AREA OF LAWN AND LANDSCAPING. SEE LANDSCAPING PLAN L-100.
- 24 NEW CONCRETE PARKING BLOCKS AT 7 PARKING SPACES.
- 25 EXISTING GATE TO REMAIN
- 26 EXISTING CATCH BASIN
- 27 NEW FIRE DEPARTMENT CONNECTION
- 28 EXISTING FIRE HYDRANT WITH (4) NEW STEEL BOLLARDS.
- 29 EXISTING FENCE GATE
- 30 NEW WATER SHUT OFF VALVE
- 31 EXISTING PHONE LINE PEDESTAL
- 32 NEW FIRE HYDRANT
- 33 NEW HOSE BIB
- 34 NEW LIGHT BOLLARD
- 35 NEW STEEL BUMPER GUARDRAIL AT 30" HT. WITH STEEL SUPPORT POSTS AT 8'-0" O.C.
- 36 NEW 4'-0" HIGH ALUMINUM FENCING. FENCING TO HAVE 'WROUGHT IRON' LOOK.
- 37 EXISTING GAS METERS
- 38 AREA OF ARTIFICIAL TURF WITHIN 3 OF THE DOG RUNS
- 39 NEW TRANSFORMER. SEE ELECTRICAL DWGS.
- 40 NEW STEEL BOLLARD
- 41 EXISTING DUMPSTER
- 42 EXISTING STORAGE SHED
- 43 NEW LIGHT POLE. SEE ELECTRICAL PLANS.
- 44 NEW CONCRETE PAVED PATIO WITHIN FENCE.
- 45 PARKING SPACES TO BE RE-STRIPPED THROUGHOUT.

PROPOSED SITE PLAN
SCALE: 1" = 20'-0"



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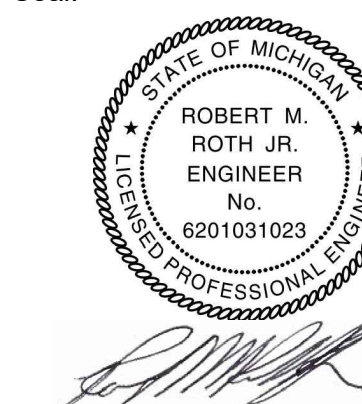
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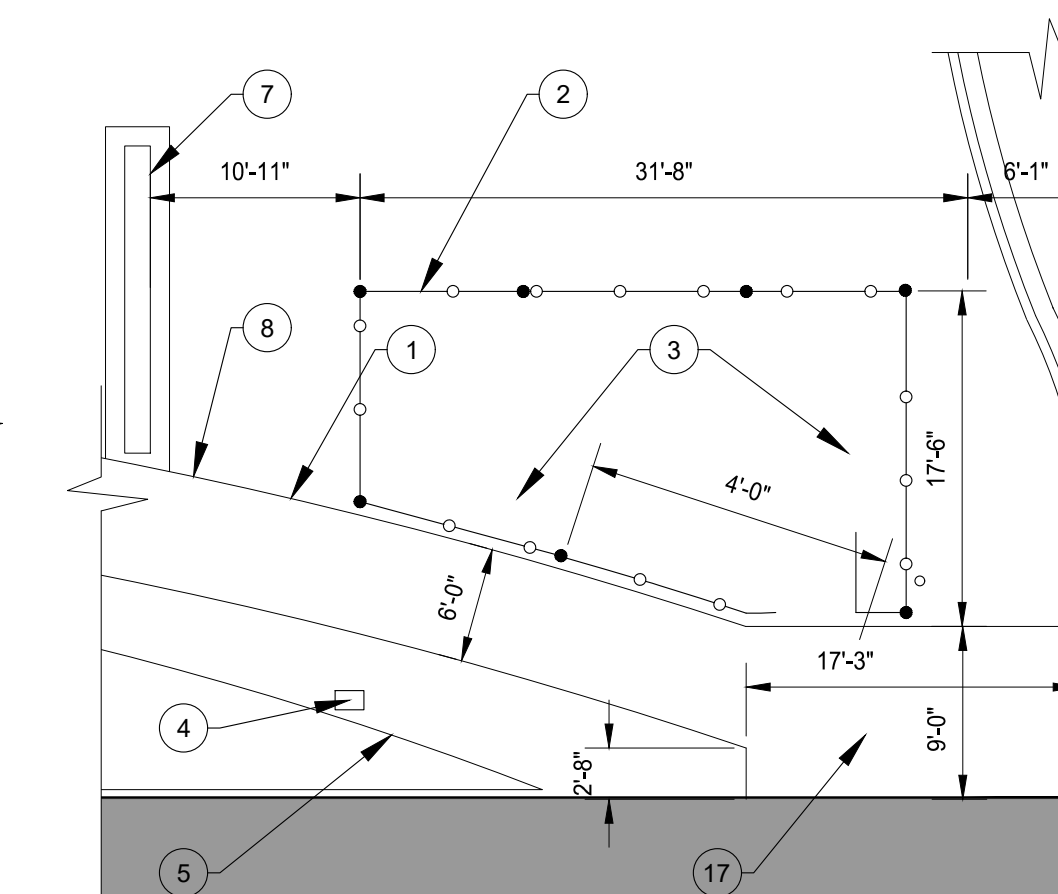
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Sheet Title:
**ENLARGED
SITE PLAN**

Project Number: **22712.A**

Sheet Number: **C-121**

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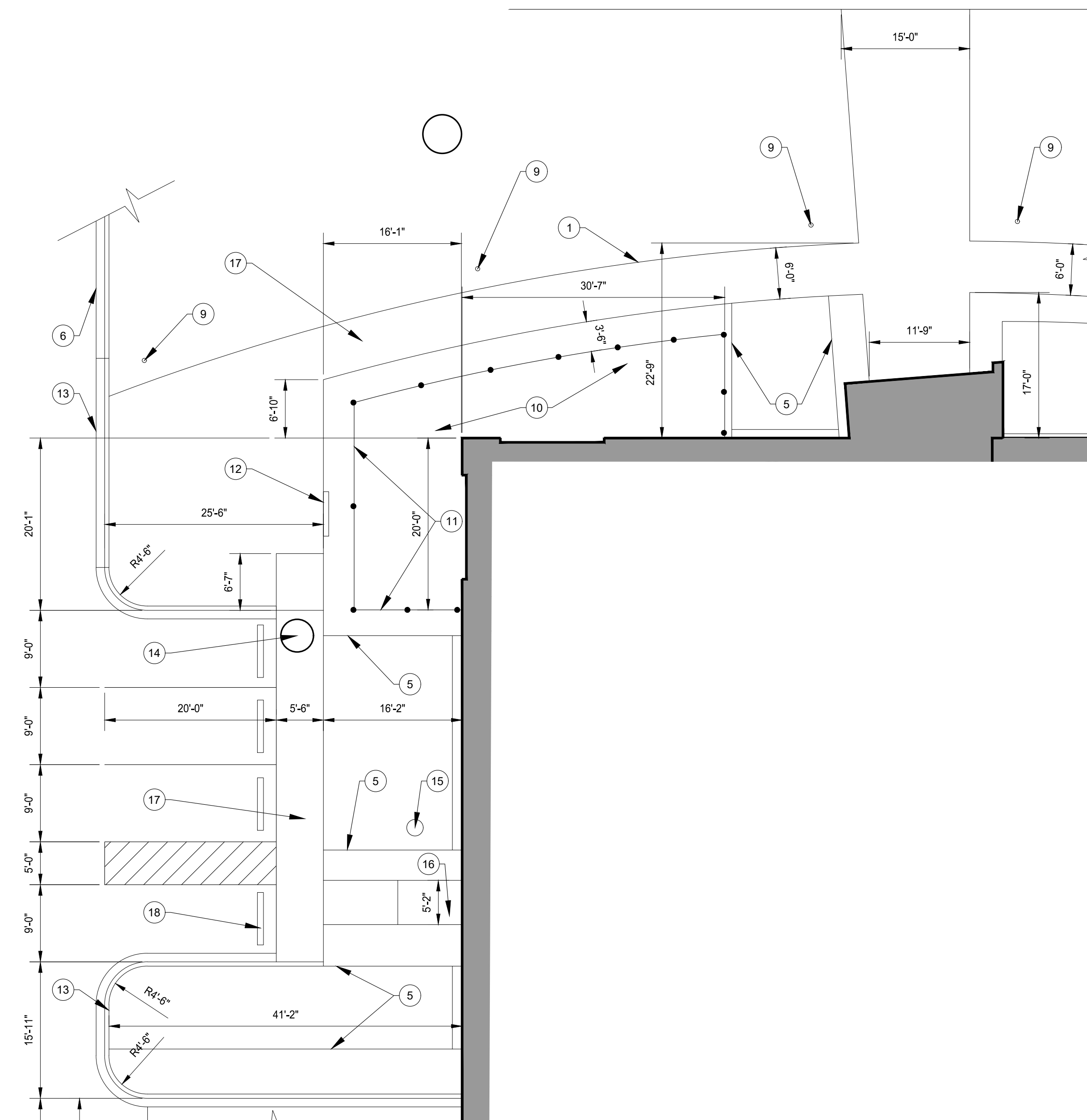
1 ENLARGED SITE PLAN
SCALE: 1" = 10'-0"

GENERAL NOTES:

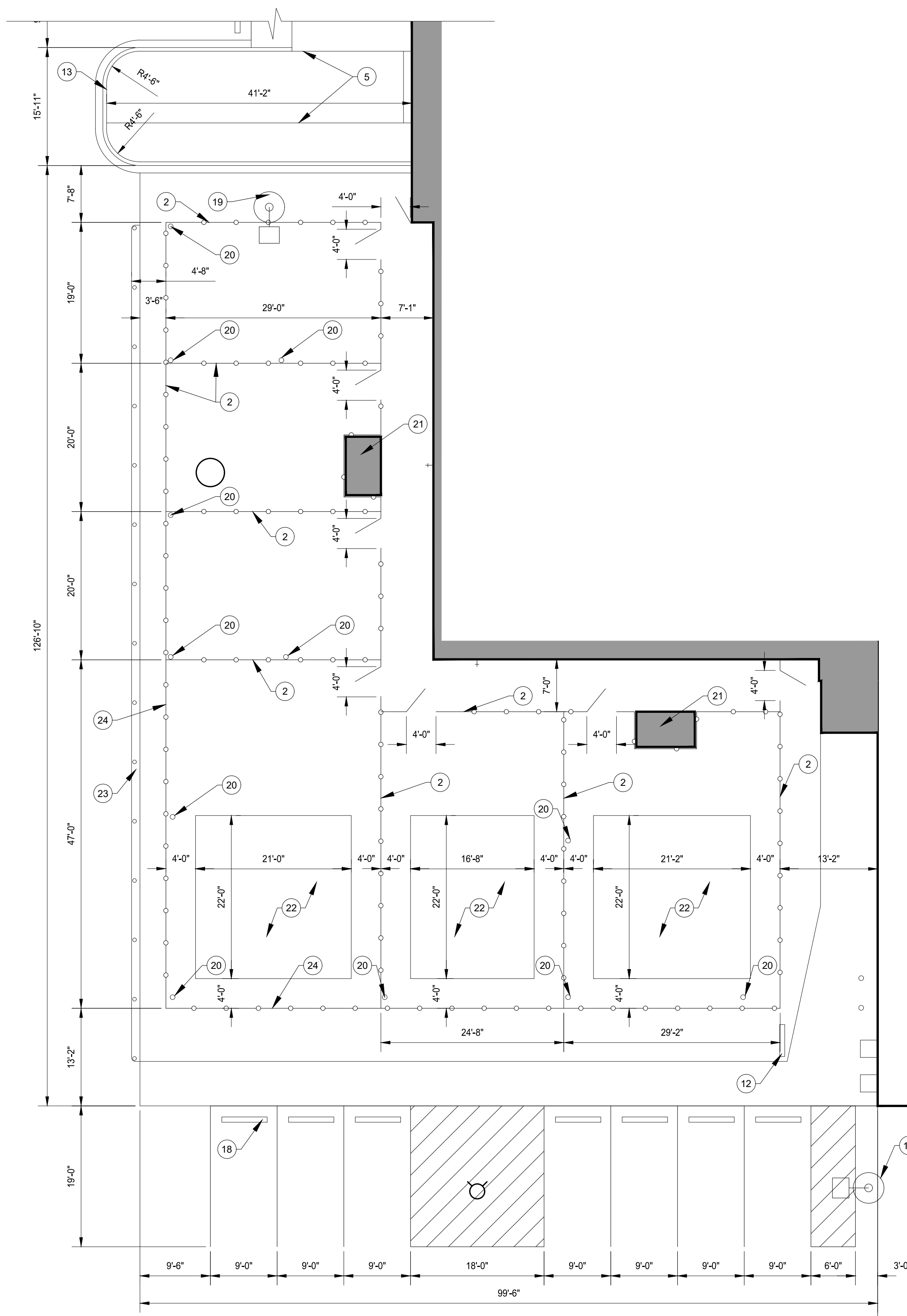
- A. REFER TO SHEET C-120 FOR SITE PLAN KEYNOTES.
- B. REFER TO SHEET C-130 FOR GRADING PLAN.
- C. REFER TO SHEET C-140 FOR SITE UTILITIES PLAN.
- D. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
- E. CONTRACTOR SHALL HAVE ARCHITECT APPROVE WALKWAY LAYOUT STAKES PRIOR TO COMMENCEMENT OF WORK.

ENLARGED SITE PLAN NOTES:

- 1 CREATE SMOOTH ARC SHAPED WALKWAY BASED ON THE START AND END POINTS AS DIMENSIONED ON THIS DRAWING.
- 2 CHAIN-LINK FENCING WITH ACCESS GATE AS SHOWN.
- 3 NATURAL LAWN/GRASS WITHIN THIS FENCED AREA.
- 4 EXISTING PHONE COMPANY PEDESTAL.
- 5 LANDSCAPE BED EDGING. SEE LANDSCAPE PLAN L-100.
- 6 EXISTING CURB.
- 7 EXISTING MASONRY MONUMENT SIGN BASE.
- 8 EDGE OF NEW WALKWAY SHALL CLEAR/MISS THE EXISTING SIGN BASE. SEE NOTE E THIS SHEET.
- 9 NEW LIGHT BOLLARD. REFER TO ELECTRICAL PLANS.
- 10 CONCRETE PAVED PATIO AREA.
- 11 ALUMINUM FENCING.
- 12 EXTERIOR DIRECTIONAL SIGN.
- 13 NEW CURB.
- 14 EXISTING CATCH BASIN (STORM DRAIN)
- 15 WATER SHUT-OFF VALVE LOCATION.
- 16 CONCRETE WALK CENTERED ON DOOR.
- 17 CONCRETE WALK
- 18 CONCRETE PARKING BLOCKS
- 19 EXISTING LIGHT POLE AND CONCRETE BASE.
- 20 STEEL SUPPORT COLUMN FOR OVERHEAD 'SAIL' CANOPY.
- 21 FREE-STANDING STORAGE BIN/SHED. FENCE TO BE INSTALLED AROUND SHED (FENCING CONTRACTOR SHALL COORDINATE).
- 22 AREA OF ARTIFICIAL TURF. TURF TO BE INSTALLED ON COMPACTED BASE PER MFR. SPECIFICATIONS.
- 23 STEEL VEHICLE BUMPER RAIL.
- 24 THE EAST & SOUTH FACING LENGTHS OF KENNEL FENCING SHALL BE INFILLED W/ PRIVACY SLATS TO FULL FENCE HEIGHT.



2 ENLARGED DIMENSIONAL SITE PLAN
SCALE: 1" = 10'-0"



3 ENLARGED SITE PLAN
SCALE: 1" = 10'-0"



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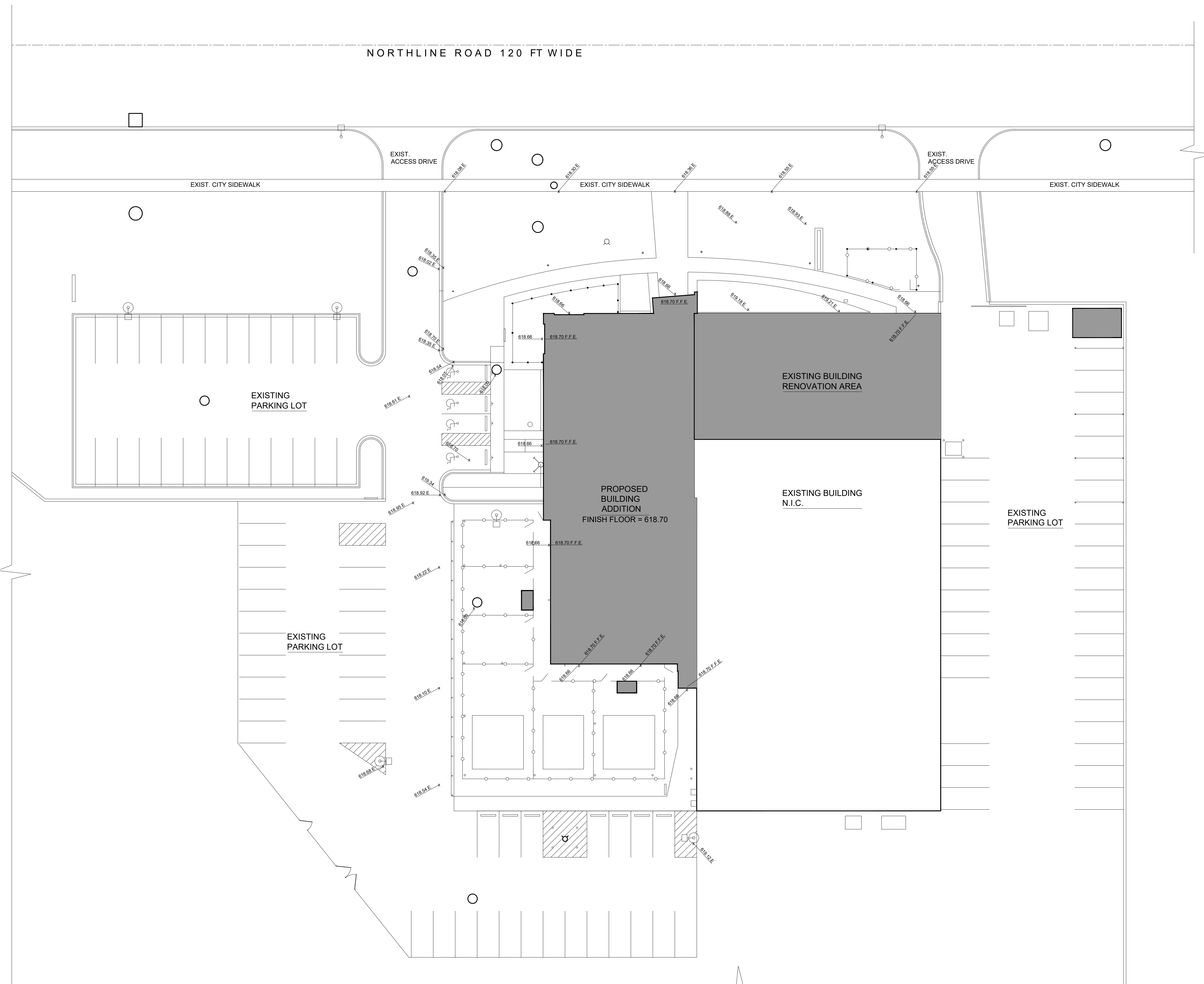
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Sheet Title:
**PROPOSED
GRADING
SITE PLAN**

Project Number: **22712.A**

Sheet Number: **C-130**

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C-130
PROPOSED GRADING SITE PLAN
SCALE: 1" = 20'-0"



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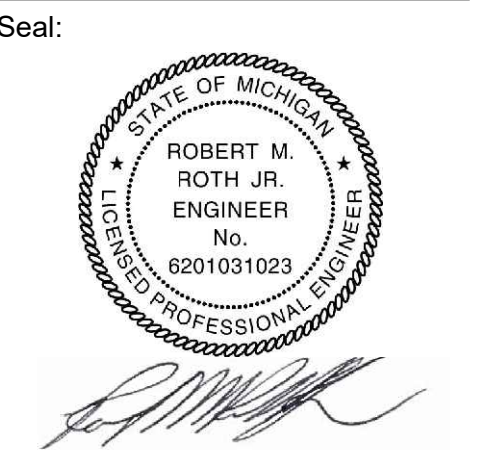
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Sheet Title:
PROPOSED UTILITIES SITE PLAN

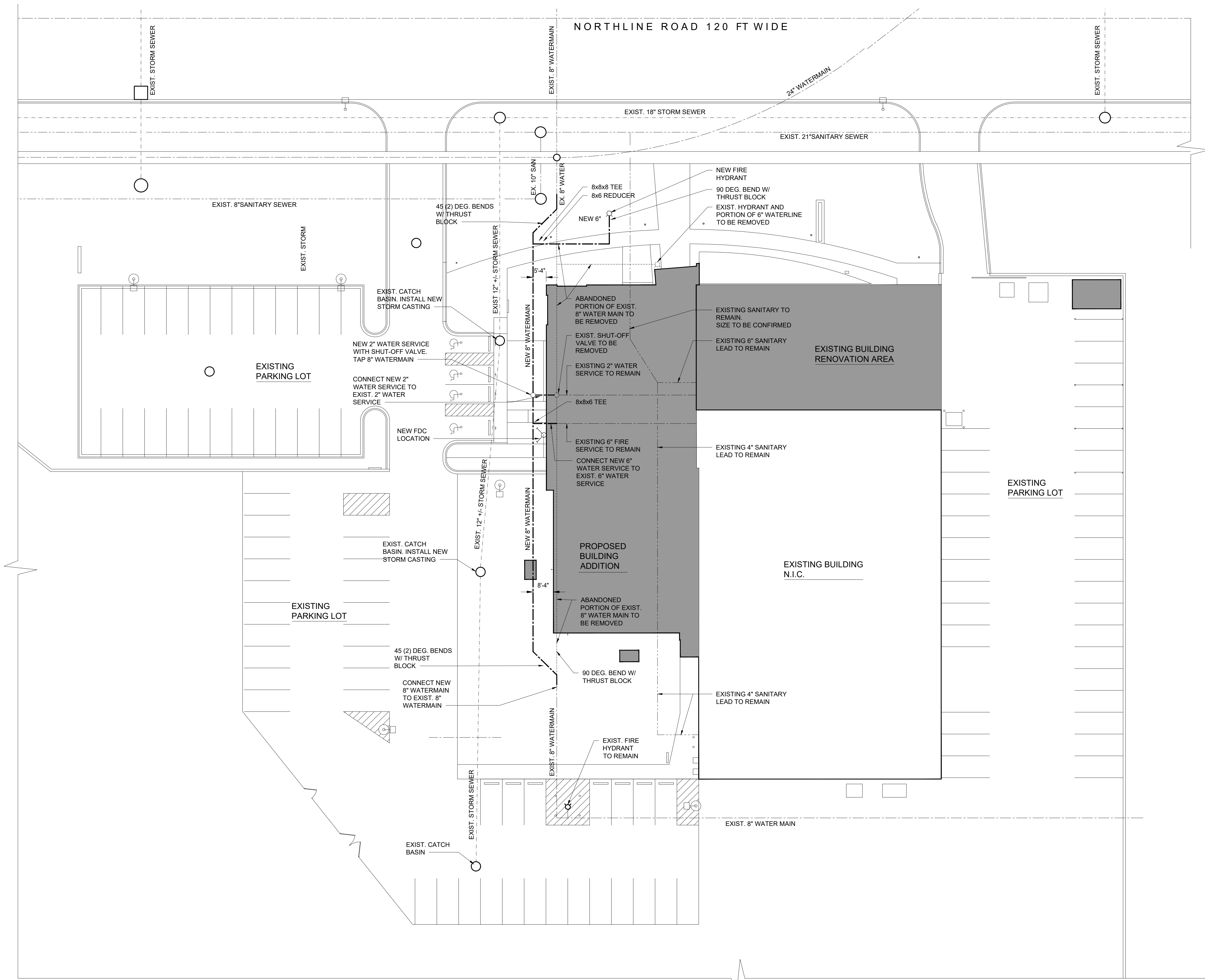
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WATER MAIN GENERAL NOTES:

- A. GENERAL CONTRACTOR SHALL COORDINATE WATER MAIN CONSTRUCTION ACTIVITIES WITH THE CITY OF TAYLOR TO AVOID CONFLICTS WITH THE ANIMAL SHELTER AND OTHER OPERATIONS. OFF PEAK WORK HOURS MAY BE REQUIRED BY THE CITY OF TAYLOR.
- B. GENERAL CONTRACTOR SHALL ENSURE THAT WATER MAIN WORK IS SCHEDULED AND COMPLETED IN A TIMELY MANNER TO ALLOW ANIMAL SHELTER TO PREDICTABLY PERFORM NORMAL BUSINESS OPERATIONS.
- C. GENERAL CONTRACTOR IS RESPONSIBLE TO CONDUCT ALL REQUIRED WATER MAIN TESTING SUCH AS PRESSURE TEST, BRC-T SAMPLING, AND SWAB.
- D. GENERAL CONTRACTOR SHALL SCOPE/CAMERA ALL STORM WATER AND SANITARY PIPING WITHIN SCOPE OF PROJECT AND REPORT FINDINGS TO CITY OF TAYLOR AND ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.



PROPOSED UTILITIES SITE PLAN
SCALE: 1" = 20'-0"



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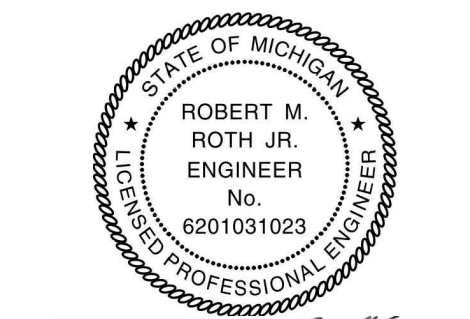
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GENERAL NOTES & DETAILS

Project Number: 22712.A

Sheet Number: **C-150**

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GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-EN TRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE – MDOT BITUMINOUS MIXTURE HMA 4E ML SURFACE COURSE – MDOT BITUMINOUS MIXTURE HMA 5E ML BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-5164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMP, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

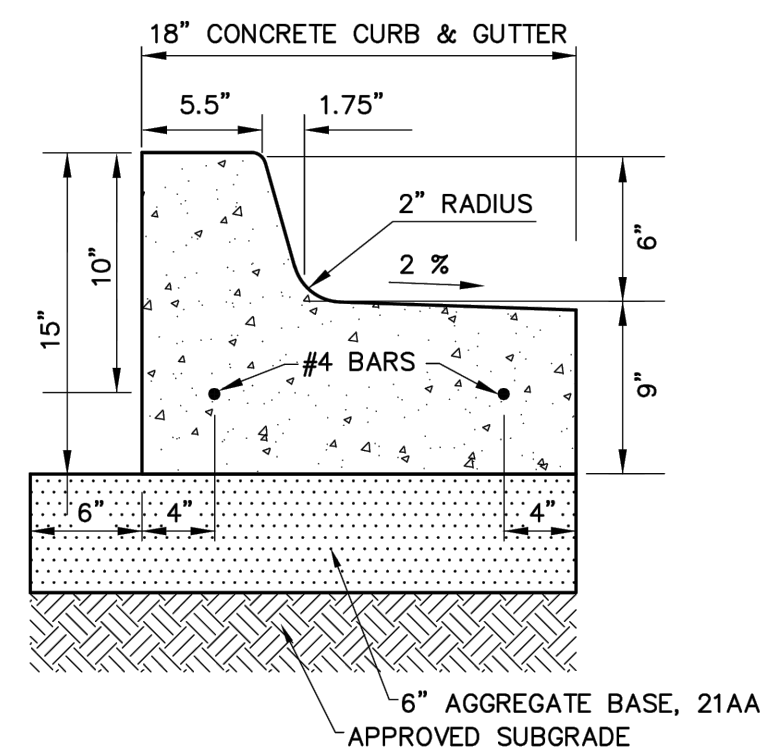
EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

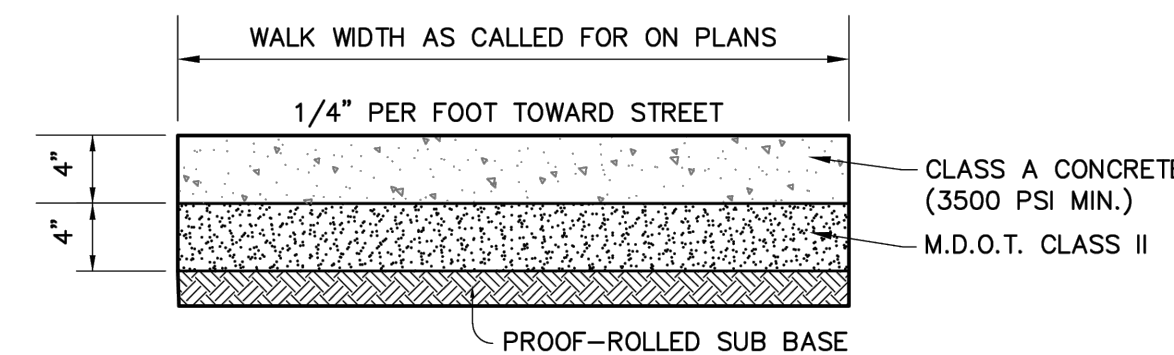
SIDEWALK RAMP, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

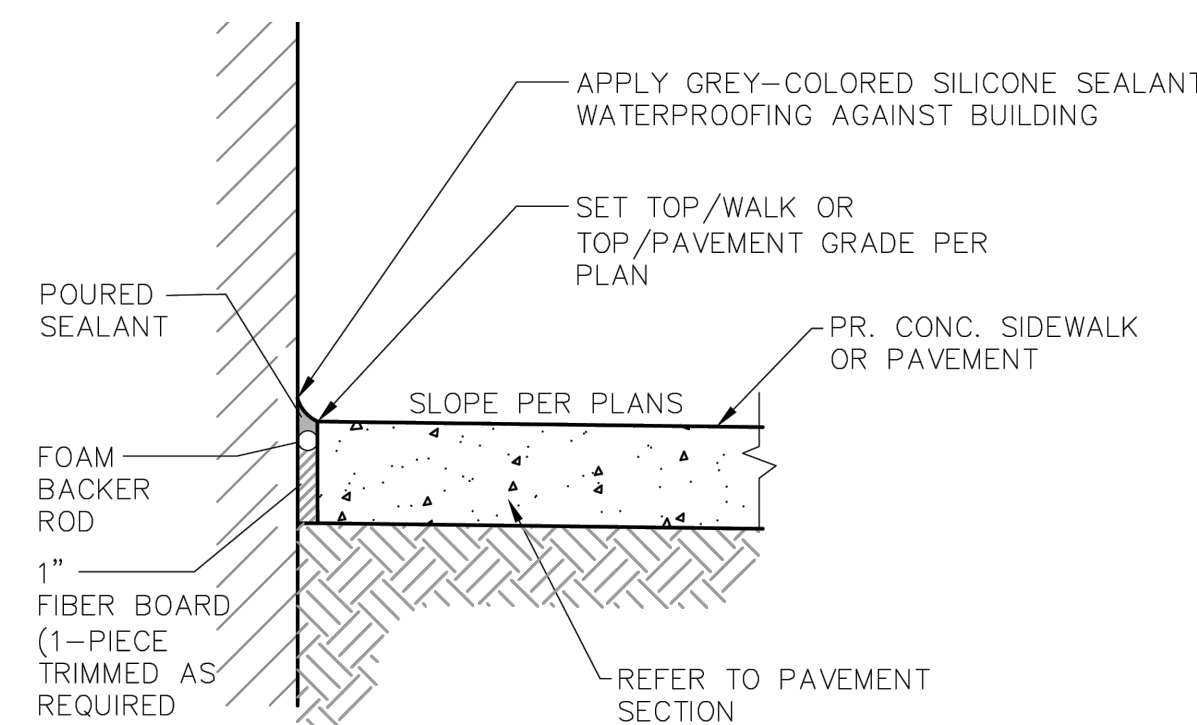
FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.



CONCRETE CURB DETAIL 'B'
N.T.S.



CONCRETE SIDEWALK SECTION
N.T.S.



EXPANSION JOINT DETAIL AT BUILDING
N.T.S.

UTILITIES

AT LEAST 72 HOURS (3 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY MISS DIO AND THE LOCAL COMMUNITY (WHERE APPLICABLE) TO STAKE LOCATIONS OF EXISTING UTILITIES.

THE CONTRACTOR SHALL EXPOSE AND VERIFY EXISTING UTILITIES FOR LOCATION, SIZE, DEPTH, MATERIAL AND CONFIGURATION PRIOR TO CONSTRUCTION COSTS FOR EXPLORATORY EXCAVATION IS AN INCIDENTAL COST AND SHALL NOT BE CONSIDERED AN EXTRA TO THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EXISTING UTILITIES WHICH DO NOT MATCH THE PLANS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. ANY FIELD CHANGES OF THE PROPOSED UTILITIES SHALL BE APPROVED BY THE CITY ENGINEER BEFORE THE WORK IS DONE.

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE. ANY SERVICE OR UTILITY DAMAGED OR REMOVED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR, IN CONFORMANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY PROVIDER.

DAMAGE TO PRIVATE PROPERTY

ALL SIDEWALKS, DRIVEWAYS, LAWNS, FENCING, TREES, SHRUBS, SPRINKLERS, LANDSCAPING, ETC., THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED, IN KIND OR BETTER, BY THE CONTRACTOR. ALL STREET SIGNS, MAIL BOXES, ETC., REMOVED SHALL BE REPLACED IN KIND OR BETTER, BY THE CONTRACTOR. ALL THE REPAIRS OR REPLACEMENTS DUE TO THE CONTRACTOR'S WORK ARE TO BE INCLUDED IN THE CONTRACT PRICE(S) AND SHALL NOT BE AN EXTRA TO THE CONTRACT.

THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM ADJACENT PROPERTY OWNERS PRIOR TO ENTERING UPON ANY ADJOINING PROPERTIES, UNLESS OFFSITE PERMITS HAVE ALREADY BEEN OBTAINED BY THE OWNER AND ARE PART OF THE CONTRACT DOCUMENTS.

DEWATERING OF TRENCH AND EXCAVATIONS

IF NOT SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION DESIGN DOCUMENTS, THE DESIGN OR QUALITATIVE ANALYSIS OF GROUND WATER DEWATERING SYSTEMS IS BEYOND THE SCOPE OF DESIGN FOR THESE DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND PROVIDING APPROPRIATE EXCAVATION DEWATERING SYSTEMS FOR USE DURING CONSTRUCTION.

THE DEWATERING METHOD SELECTED BY THE CONTRACTOR WILL NOT ADVERSELY AFFECT ADJACENT PAVEMENTS OR STRUCTURES PRIOR TO BEGINNING DEWATERING CONDITIONS. MEANS AND METHODS OF DEWATERING ARE SOLELY THE RESPONSIBILITY OF THE OWNER AND ENGINEER. THE COST OF DEWATERING WILL BE CONSIDERED INCLUDED IN THE WORK OF CONSTRUCTING THE UNDERGROUND UTILITIES UNLESS SPECIFICALLY INDICATED OTHERWISE.

BY-PASS PUMPING

FROM TIME TO TIME IT MAY BE NECESSARY FOR THE CONTRACTOR TO BY-PASS PUMP TO COMPLETE THE WORK INDICATED ON THE PLANS. THE COST OF BY-PASS PUMPING, THE METHODS, EQUIPMENT AND MEANS OF PROVIDING THAT WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED PART OF THE WORK WHETHER SPECIFICALLY CALLED OUT ON THE PLANS OR NOT.

MEANS AND METHODS FOR PIPE CONSTRUCTION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR CONSTRUCTING THE UNDERGROUND PIPE SYSTEMS PROPOSED ON THE PLANS, INCLUDING BUT NOT LIMITED TO THE NEED FOR SHORING/BRACING OF TRENCHES, DEWATERING OF TRENCHES, SCHEDULING THE WORK AT OFF PEAK HOURS, AND/OR MAINTAINING EXISTING FLOWS THAT MAY BE ENCOUNTERED VIA PUMPING, BY-PASS PIPING OR OTHER MEANS. THE CONTRACTOR SHALL NOT BE PAID ANY ADDITIONAL COMPENSATION TO IMPLEMENT ANY MEANS AND METHODS TO SATISFACTORILY COMPLETE THE CONSTRUCTION.

PAVEMENT REMOVAL

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE THICKNESS OF THE PAVEMENT REMOVAL. PAVEMENT CORE SAMPLES ARE FOR INFORMATIONAL PURPOSES ONLY AS TO THE THICKNESS OF THE PAVEMENT AT THE LOCATION OF THE WORK. THE OWNER AND ENGINEER MAKE NO REPRESENTATION, WARRANTY OR GUARANTY THAT THE SAMPLES ACCURATELY REFLECT THE PAVEMENT THICKNESS ON THE PROJECT.

MAINTENANCE OF TRAFFIC

DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL ACCOMMODATE BOTH VEHICULAR AND PEDESTRIAN TRAFFIC IN THE ROAD RIGHTS OF WAY. THE CONTRACTOR'S EQUIPMENT AND OPERATIONS ON PUBLIC STREETS SHALL BE GOVERNED BY ALL APPLICABLE LOCAL, COUNTY AND STATE ORDINANCES, REGULATIONS AND LAWS. THE CONTRACTOR SHALL OBTAIN AND SATISFY ANY AND ALL PERMIT REQUIREMENTS BY THE LOCAL, COUNTY AND STATE GOVERNMENTAL AGENCIES.

IN ADDITION, WHERE THE WORK REQUIRES THE CLOSURE OF ONE OR MORE LANES OR IS WITHIN THE INFLUENCE OF THE ROAD OR PEDESTRIAN RIGHT OF WAY, THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAG PERSONS AND OTHER TRAFFIC CONTROL MEASURES AS REQUIRED BY MDOT, THE COUNTY, OR THE COMMUNITY HAVING JURISDICTION OF THE ROAD AND IN CONFORMANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

COMPENSATION FOR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC TRAFFIC CONTROL ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

IRRIGATION

THE CONTRACTOR SHALL MAINTAIN OR REPAIR ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT AREA UNLESS DRAWINGS CALL FOR THE IRRIGATION SYSTEM TO BE REMOVED. THE OWNER AND NFE MAKE NO REPRESENTATIONS, WARRANTY OR GUARANTY AS TO THE LOCATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE IRRIGATION SYSTEM DURING CONSTRUCTION ACTIVITIES. COMPENSATION FOR MAINTAINING OR REPAIRING EXISTING IRRIGATION SYSTEMS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE(S) UNLESS SPECIFIC IRRIGATION SYSTEM REPAIR ITEMS ARE INCLUDED IN THE ACCEPTED BID PROPOSAL.

SUB-SOIL CONDITIONS

ANY SOIL BORING PROVIDED BY THE OWNER AND/OR ENGINEER IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THIS INFORMATION IS NOT OFFERED AS EVIDENCE OF GROUND CONDITIONS THROUGHOUT THE PROJECT AND ONLY REFLECT THE GROUND CONDITIONS AT THE LOCATION OF THE BORING ON THE DATE THEY WERE TAKEN.

THE ACCURACY AND RELIABILITY OF THE SOIL LOGS AND REPORT ARE NOT WARRANTED OR GUARANTEED IN ANY WAY BY THE OWNER OR ENGINEER AS TO THE SUB-SOIL CONDITIONS FOUND ON THE SITE. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION AND SUB-SOIL INVESTIGATION AND SECURE OTHER SUCH INFORMATION AS THE CONTRACTOR CONSIDERS NECESSARY TO DO THE WORK PROPOSED AND IN PREPARATION OF THEIR BID.

SUBGRADE UNDERCUTTING AND PREPARTION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SOILS WHICH DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SUBGRADE IN CONFORMANCE WITH THE PROJECT PLANS AND/OR SPECIFICATIONS. THE MEANS AND METHODS USED TO ACHIEVE THE REQUIRED RESULT SHALL REST SOLELY WITH THE CONTRACTOR.

ANY AREAS OF UNDERCUTTING THAT RESULT IN ADDITIONAL OR EXTRA WORK BECAUSE THEY COULD NOT BE IDENTIFIED BY THE CONTRACTOR'S PRE-BID SITE OBSERVATION OR ARE NOT SET FORTH IN THE PLANS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE ANY EXTRA WORK IS PERFORMED. THE CONTRACTOR SHALL MAKE A REQUEST FOR ANY ADDITIONAL COMPENSATION FOR THE UNDERCUTTING IN WRITING AND THE REQUEST SHALL CONFORM TO THE CONTRACT'S CHANGE ORDER PROVISIONS.

STRUCTURE BACKFILL

STRUCTURAL BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PROJECT PLANS, SPECIFICATIONS OR AS REQUIRED BY THE COMMUNITY, GOVERNMENT AGENCY OR UTILITY THAT HAS JURISDICTION OVER THE WORK.

TRENCH BACKFILL

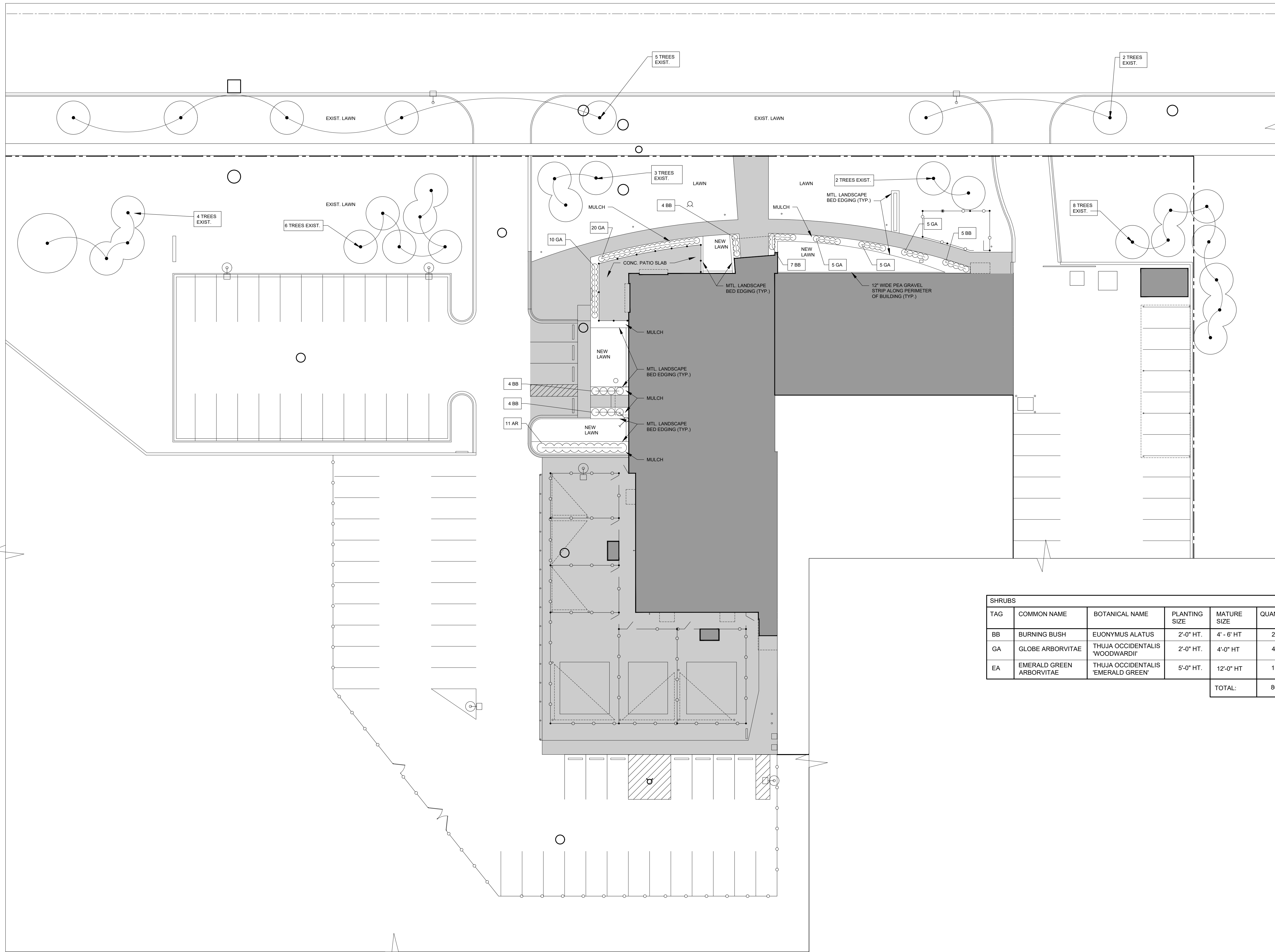
TRENCH BACKFILL SHALL BE PLACED IN CONFORMANCE WITH THE PLANS AND/OR SPECIFICATIONS. TRENCH BACKFILL SHALL ALSO BE INSTALLED IN CONFORMANCE WITH THE COMMUNITY REQUIREMENTS OR AGENCY/UTILITY GOVERNING SAID TRENCH CONSTRUCTION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.

EARTH BALANCE / GRADING

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER THE SITE EARTHWORK BALANCES OR NOT. ANY EXCESS CUT MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR, IN A LIKE MANNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPORT APPROVED FILL MATERIAL AND PLACE IT AS REQUIRED TO ATTAIN THE SITE GRADE AND COMPACTION REQUIREMENTS PER THE ENGINEER'S PLAN AND ALL APPLICABLE GOVERNMENTAL STANDARDS. THE ENGINEER AND OWNER MAKE NO REPRESENTATION AS TO THE QUANTITIES THAT MAY BE NEEDED TO CREATE A BALANCED EARTHWORK CONDITION OR THAT THE SITE EARTHWORK IS BALANCED.

SOIL EROSION / SEDIMENTATION CONTROL

THE CONTRACTOR SHALL OBTAIN THE REQUIRED SOIL EROSION PERMIT AND SATISFY ALL REGULATORY REQUIREMENTS FOR CONTROLLING SOIL EROSION AND SEDIMENT TRANSPORT. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR INSPECTION OR APPROVAL OF THE CONTRACTOR'S WORK IN CONNECTION WITH SATISFYING THE SOIL EROSION PERMIT REQUIREMENTS UNLESS SPECIFICALLY STATED IN THE CONTRACT DOCUMENTS.



GENERAL LANDSCAPE NOTES:

- A. ALL LANDSCAPE AREA, ESPECIALLY PARKING LOT ISLANDS AND SHRUB BEDS NEXT TO BUILDING, SHALL BE EXCAVATED OF ALL BUILDING MATERIALS AND POOR SOIL TO A DEPTH OF 12"-18" AND BACK FILLED W/ A GOOD MEDIUM TEXTURED SOIL (LOAM OR LIGHT YELLOW CLAY). ALL LANDSCAPE AREAS TO HAVE 4"-6" OF TOP SOIL AND ARE TO BE A MINIMUM OF 6" HIGHER THAN ADJACENT CURBS OR WALKS AFTER SETTLING.
- B. PLANT TREES AND SHRUBS GENERALLY NO CLOSER THAN THE FOLLOWING DISTANCES APART OR WORK WITH ARCHITECT TO HAVE SPACING REFLECT THE DESIGN INTENT AS SHOWN ON THE PLAN:
 - SHADE TREES: 20' O.C. MIN.
 - SHRUBS: SPACED TO CREATE SCREEN/BUFFER. SEE PLAN.
 - ORNAMENTAL & EVERGREEN TREES (CRAB, PINE, SPRUCE) 10' O.C. MIN.
- C. DIG SHRUB PITS 1'-0" LARGER THAN THE SHRUB ROOT BALLS. TREE PITS 2'-0" LARGER THAN THE ROOT BALLS. BACK FILL W/ 1 PART TOPSOIL - 1 PART SOIL FROM EXCAVATED PLANT HOLES.
- D. REMOVE ALL TWINE, WIRE, AND BURLAP FROM TOP OF ALL SHRUB EARTH BALLS AND TREE TRUNKS
- E. LAWN TREES TO BE MULCHED W/ 2'-0" WIDE BY 6" MINIMUM SHREDDED BARK RING OR APPROVED ALTERNATE DESIGN FOR TREE TRUNK PROTECTION.
- F. ALL LANDSCAPE BEDS TO BE MULCHED WITH 4" OF SHREDDED WOOD MULCH AND BORDERED WITH METAL LANDSCAPE EDGING.
- G. INSTALLATION OF PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS AND WITH THE GENERAL PLANTING SPECIFICATIONS AS SET FORTH BY THE CITY OF FERRDALE DEPARTMENT OF PUBLIC SERVICES.
- H. ALL TREES TO BE STAKED, WRAPPED, AND MULCHED ACCORDING TO CITY STANDARDS.
- I. ALL ERICACIOUS PLANT MATERIAL AND OTHER ACID LOVING PLANTS SHALL BE PLANTED IN PLANTING MIX OF 1 PART TOPSOIL - 1 PART PEAT.
- J. ALL LAWN AREAS TO BE FINE GRADED AND TOP DRESSED WITH 3" OF TOP SOIL BEFORE SODDING.
- K. ALL QUANTITIES ON PLANS HAVE BEEN FIGURED AS CLOSELY AS POSSIBLE. IT REMAINS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO COMPLETE THE PROJECT AS INDICATED ON THE DRAWINGS.
- L. ALL GROUND COVER BEDS SHALL RECEIVE 3" OF PLANT MIX (1/3 TOPSOIL, 1/3 SAND, 1/3 PEAT) ROTOTILLED INTO THE UPPER 6" OF SOIL, MULCH WITH 2" OF MICHIGAN PEAT MULCH.
- M. PLUMBING PERMIT IS REQUIRED FOR THE INSTALLATION OF BACKFLOW PREVENTION FOR AUTOMATIC SPRINKLER SYSTEMS.
- N. PLANTS SHALL BE WATERED/IRRIGATED AS NECESSARY TO PROMOTE PROPER AND HEALTHY PLANT GROWTH. GC IS RESPONSIBLE TO DO SO UNTIL THE PROJECT IS COMPLETED AND OFFICIALLY TURNED OVER TO THE OWNER.

Sidock Group
ARCHITECTS • ENGINEERS • CONSULTANTS

Corporate Headquarters
45650 Grand River Ave.
Novi, Michigan 48374
Ph: (248)349-4500 • Fax: (248)349-1429

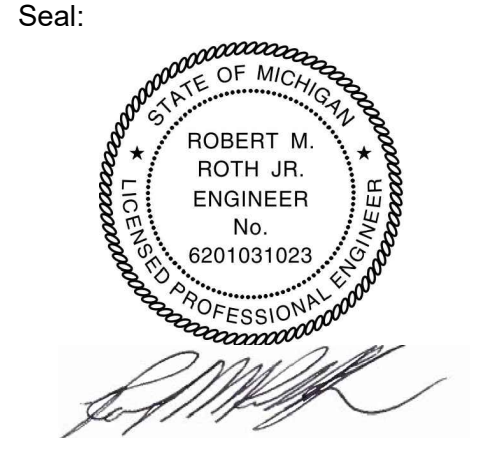
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Lansing • Gaylord • Sault Ste. Marie
Williamsport, PA • Tampa, FL
www.sidockgroup.com



Client:
City of Taylor
23555 Goddard Rd.
Taylor, MI 48180

Project:
City of Taylor
Animal Shelter
Remodel & Expansion

25555 Northline Rd.
Taylor, MI 48180



Date	Issued For
09-13-2023	25% Complete Review
10-18-2023	50% Complete Review
12-21-2023	Owner Review
01-17-2024	Permit Review

Drawn: WD/JC/NC
Checked: WD
Approved: MR

Sheet Title:
LANDSCAPE PLAN

Project Number: 22712.A

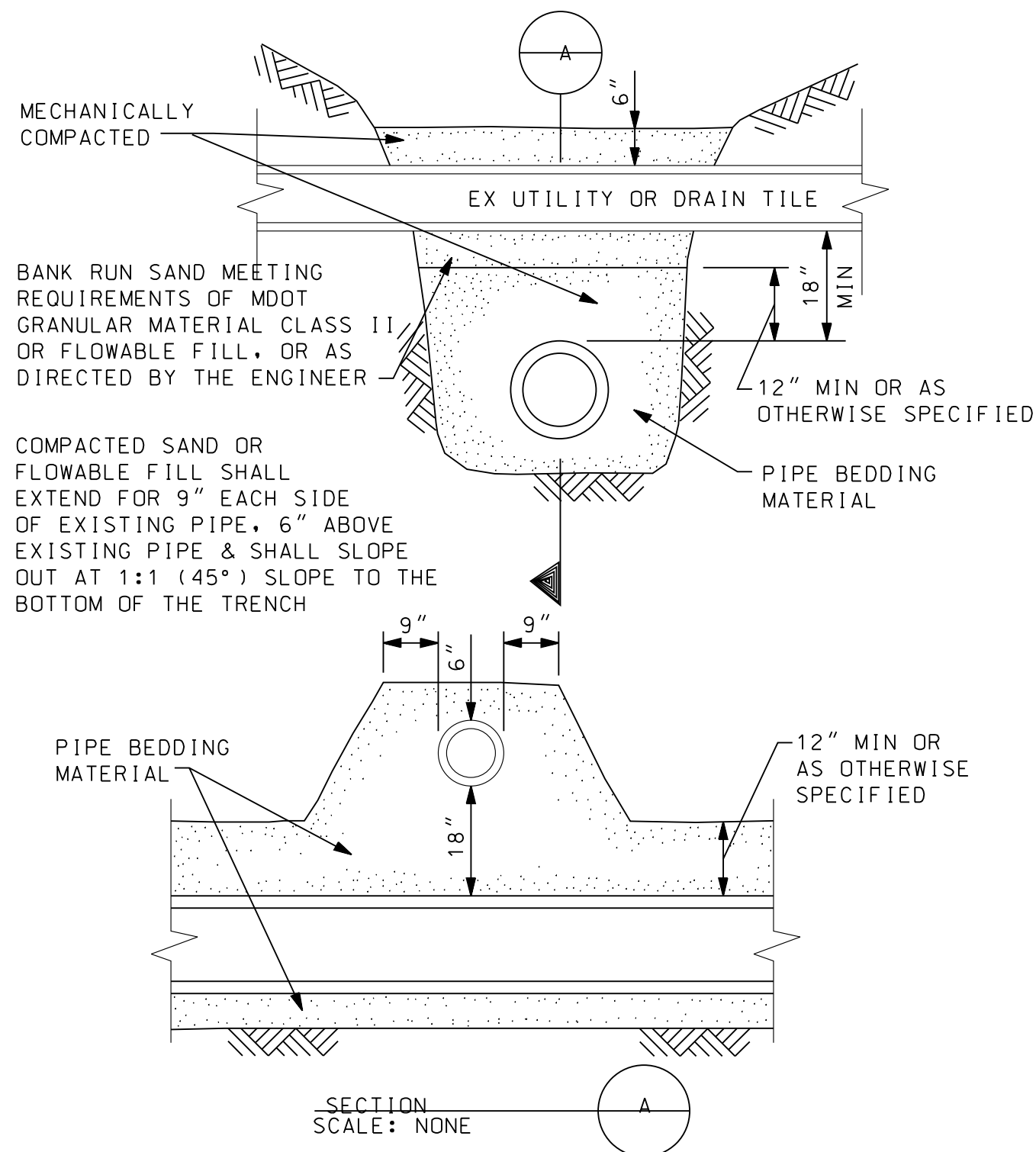
Sheet Number: **L-100**

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LANDSCAPE PLAN
SCALE: 1" = 20'-0"

SHRUBS					
TAG	COMMON NAME	BOTANICAL NAME	PLANTING SIZE	MATURE SIZE	QUANTITY
BB	BURNING BUSH	EUONYMUS ALATUS	2'-0" HT.	4' - 6' HT	24
GA	GLOBE ARBORVITAE	THUJA OCCIDENTALIS 'WOODWARDII'	2'-0" HT.	4'-0" HT	45
EA	EMERALD GREEN ARBORVITAE	THUJA OCCIDENTALIS 'EMERALD GREEN'	5'-0" HT.	12'-0" HT	11
TOTAL:					80

NOTE:
WHERE CONCRETE ENCASEMENT IS SPECIFIED FOR NEW UTILITY A 6" MINIMUM LAYER OF MECHANICALLY COMPACTED SAND SHALL BE MAINTAINED BETWEEN EXISTING UTILITY & TOP OF CONCRETE ENCASEMENT.



STANDARD PIPE SUPPORT
N. T. S.

GENERAL NOTES

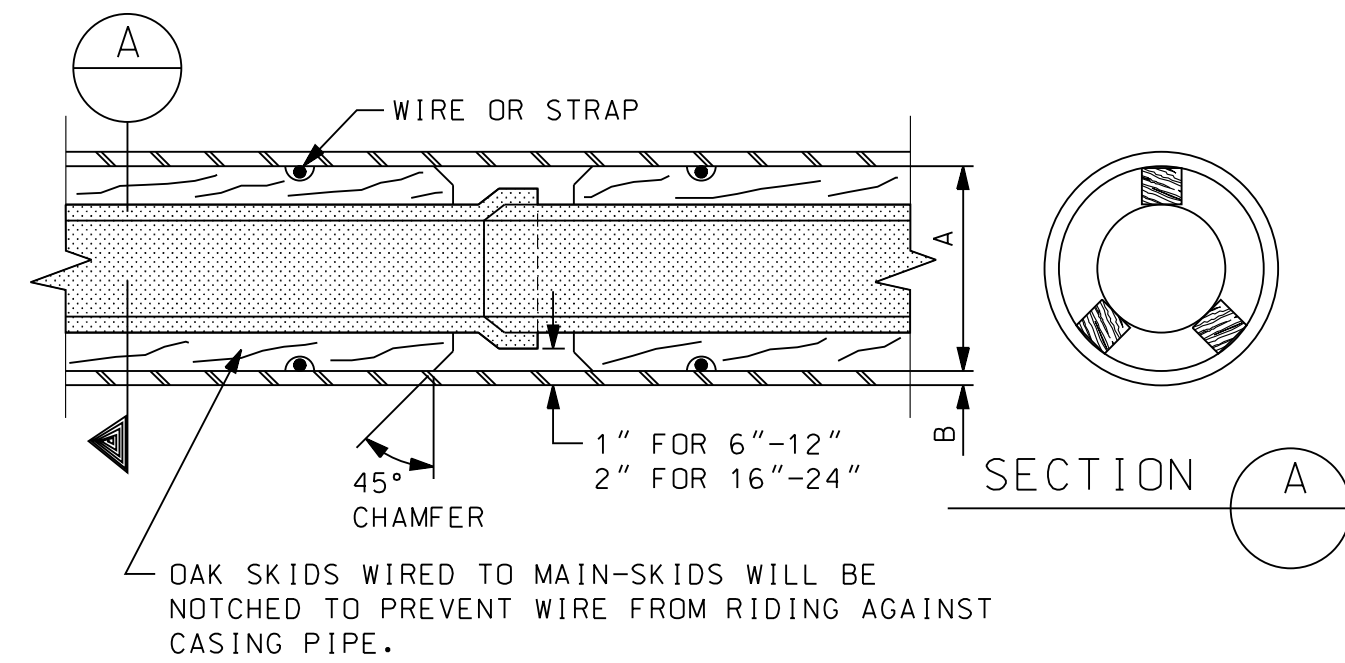
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION MEETING, AT A TIME AND PLACE AS ARRANGED BY THE COMMUNITY, IN WHICH VARIOUS UTILITY COMPANIES AND GOVERNMENTAL AGENCY REPRESENTATIVES WILL BE PRESENT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY TO CONSTRUCT A CONNECTION TO, OR AN EXTENSION OF, THE WATER SUPPLY, SANITARY SEWER, OR STORM SEWER SYSTEMS.
- THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENTLY EXISTING ROAD RIGHTS-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS THROUGHOUT THE PROJECT. IN THE EVENT THAT THE CONTRACTOR DEEMS IT NECESSARY OR ADVISABLE TO OPERATE BEYOND THE LIMITS OF THE EXISTING RIGHTS-OF-WAY OR EASEMENTS, HE SHALL BE RESPONSIBLE FOR MAKING SPECIAL WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND SHALL FURNISH SUCH COPIES OF AGREEMENTS TO THE COMMUNITY AND ENGINEER.
- THE CONTRACTOR SHALL NOTIFY "MISS DIG" (800-482-7171) 3 DAYS (NOT INCLUDING HOLIDAYS OR WEEKENDS) BEFORE STARTING CONSTRUCTION. HE SHALL MAKE ANY NECESSARY ARRANGEMENTS WITH UTILITY COMPANIES FOR RELOCATION OF EXISTING UTILITIES. THESE ARRANGEMENTS SHALL BE MADE IN SUFFICIENT TIME TO ALLOW THE RELOCATION WORK TO BE COMPLETED WITHOUT INTERFERING WITH OR DELAYING THE SEWER CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO UNCOVERING ANY EXISTING UTILITIES.
- ON ALL WORK WITHIN THE WAYNE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER AND THE COMMUNITY 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC AT ALL TIMES AS PER THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE EMERGENCY ACCESS TO PROPERTY IN THE VICINITY OF THE CONSTRUCTION FOR POLICE AND FIRE EQUIPMENT, AMBULANCES OR OTHER EMERGENCY VEHICLES TO PROTECT LIFE, HEALTH AND PROPERTY.
- THE CONTRACTOR SHALL MAINTAIN PUBLIC ROADS AFFECTED BY THE CONSTRUCTION OPERATIONS IN A PASSABLE CONDITION UNTIL SUCH TIME AS FINAL RESTORATION OF THESE IMPROVEMENTS CAN BE MADE. IF THE PUBLIC SAFETY IS IN DANGER OR THE NECESSITY EXISTS FOR MAINTAINING TRAFFIC, BACKFILLING MUST BE COMPLETED IMMEDIATELY. IN THE EVENT THAT THE NECESSARY BACKFILL MATERIAL AND EQUIPMENT ARE NOT AVAILABLE WHEN DIRECTION IS GIVEN FOR IMMEDIATE BACKFILL, THE TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL TO PROVIDE FOR THE NECESSARY MAINTENANCE OF TRAFFIC AND SAFETY; HOWEVER, THE NATIVE MATERIAL SHALL BE REMOVED WITHIN 48 HOURS AND THE TRENCH PROPERLY BACKFILLED.

GENERAL NOTES CONTINUED

- NO STREET, ROAD OR SECTION THEREOF SHALL BE CLOSED TO THROUGH TRAFFIC UNLESS AUTHORIZED BY THE AGENCY WITH JURISDICTION OVER THE ROADS. PRIOR TO CLOSING A STREET, ROAD, OR SECTION THEREOF, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF A DETOUR PLAN APPROVED BY THE AGENCY HAVING JURISDICTION OVER THE ROADS.
- IN THE EVENT ROADS ARE TO BE CLOSED, THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT, POLICE DEPARTMENT, LOCAL ROAD AUTHORITY, AMBULANCE AND EMERGENCY SERVICES, DEPARTMENT OF PUBLIC WORKS, PUBLIC TRANSIT AUTHORITY, PUBLIC SCHOOL SYSTEM, LOCAL TRASH PICKUP AUTHORITY, AND PUBLIC AND PRIVATE UTILITIES DAILY AS TO WHAT STREETS WILL BE PARTLY BLOCKED OR CLOSED, THE LENGTH OF TIME THE STREETS WILL BE BLOCKED OR CLOSED AND WHEN THE STREETS WILL BE REOPENED TO TRAFFIC.
- PAVED STREETS AND DRIVEWAYS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS AND THE CONTRACTOR SHALL REMOVE ACCUMULATIONS OF DEBRIS CAUSED BY HIS OPERATIONS. THE CONTRACTOR SHALL HAVE, AS A MINIMUM, AN OPERATING SWEEPER BROOM ON THE SITE AT ALL TIMES. THE PAVEMENT SHALL BE CLEANED AT THE CLOSE OF EACH DAYS OPERATION AND AS OFTEN AS NECESSARY BEFORE THAT TIME. FAILURE TO COMPLY SHALL BE CAUSE TO STOP CONSTRUCTION. CONTRACTOR SHALL ALSO COMPLY WITH THE LOCAL AIR POLLUTION CONTROL ORDINANCE.
- ALL GRAVEL AND DIRT ROADS, STREETS OR DRIVEWAYS USED SHALL BE MAINTAINED BY GRADING, PLACING DUST PALLIATIVES, AND MAINTENANCE GRAVEL IN SUFFICIENT QUANTITIES TO ELIMINATE DUST AND MAINTAIN TRAFFIC AS DIRECTED BY THE AGENCY.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SHEETING, SHORING, DEWATERING, BRACING, TRENCH BOXES, ETC., TO PERFORM WORK SAFELY AND PROTECT EXISTING UTILITIES AND IMPROVEMENTS.
- THE FLOW IN THE EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- CULVERTS, DITCHES, DRAIN TILES, TILE FIELD, DRAINAGE STRUCTURES, ETC., THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- ALL PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATION, SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- AFTER ALL THE PIPE, STRUCTURES, ETC., HAVE BEEN LAID, CONSTRUCTED, AND BACKFILLED, THE SYSTEM SHALL BE TESTED AND FINAL INSPECTED. THE INSPECTION AND TESTING SHALL CONSIST OF A FIRST INSPECTION, TELEVISION INSPECTION (IF APPLICABLE) TESTING, AND FINAL INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SUPERVISION, LABOR, TOOLS, EQUIPMENT, AND THE MATERIALS NECESSARY FOR THE TESTS WHICH SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED TWO (2) WORKING DAYS IN ADVANCE OF ALL TESTING.

GENERAL NOTES CONTINUED

- THE FIRST INSPECTION SHALL BE COMPLETED AND ALL REPAIRS MADE IN AMPLE TIME SO THAT THE TELEVISION INSPECTION OF THE UNDERGROUND PORTION OF THE SYSTEM CAN BE COMPLETED WITHIN FOUR (4) WEEKS OF THE COMPLETION OF THE CONSTRUCTION. WHEN RE-TELEVISION IS NECESSARY, AN ADDITIONAL TWO (2) WEEKS WILL BE ALLOWED FOR COMPLETION. TESTING OF THE SYSTEM AS HEREIN DESCRIBED SHALL IMMEDIATELY FOLLOW THE TELEVISION INSPECTION AND SHALL BE COMPLETED WITHIN A TWO (2) WEEK PERIOD.
- FAILURE TO MAINTAIN A SCHEDULE IN COMPLIANCE WITH THESE TERMS WILL AUTOMATICALLY CAUSE THE STOPPAGE OF OTHER WORK AT THE PARTICULAR SITE IN QUESTION UNTIL SUCH TIME AS THE FINAL INSPECTION OF THE COMPLETED UNDERGROUND PORTION OF THE SYSTEM HAS PROGRESSED TO ACCEPTABLE LIMITS.
- THE CONTRACTOR SHALL HAVE THE UNDERGROUND PORTION OF THE SEWER SYSTEM READY FOR THE FIRST INSPECTION WITHIN TWO (2) WEEKS AFTER THE COMPLETION OF UTILITY.
- THE FIRST INSPECTION SHALL CONSIST OF A VISIBLE AND AUDIBLE CHECK OF SEWERS, MANHOLES, GATE WELLS, AND OTHER STRUCTURES TO ASCERTAIN THAT THE STRUCTURE STEPS HAVE BEEN PLACED, ALL LIFT HOLES PLUGGED, THE CHANNELING OF THE MANHOLE BOTTOMS COMPLETED, ALL VISIBLE OR AUDIBLE LEAKS STOPPED, ALL PIPE HAS BEEN PLACED STRAIGHT AND TRUE TO THE PROPER GRADES AND ELEVATION, THE REQUIRED ADJUSTING RINGS AND FRAME AND COVER PROPERTY INSTALLED, ALL TRENCHES AND STRUCTURES BACKFILLED IN AN ACCEPTABLE MANNER AND THAT THE SYSTEM HAS BEEN THOROUGHLY CLEANED.
- THE FIRST INSPECTION SHALL BE CONSIDERED COMPLETED WHEN ALL THE REPAIRS HAVE BEEN MADE AND THE SYSTEM IS READY FOR A TELEVISION INSPECTION AND SUBSEQUENT TESTING.
- TRENCH BACKFILL UNDER ROAD SURFACES, PAVEMENTS, CURBS, DRIVEWAY, SIDEWALK AND WHERE THE TRENCH EDGE IS WITHIN 3- FEET OF THE PAVEMENT SHALL BE TRENCH B (SAND) PER SPECIFICATIONS SECTION 312333, TRENCHING AND BACKFILLING.
- AFTER ALL TESTING, TELEVISION INSPECTION, FINAL RESTORATION AND CLEAN-UP HAS BEEN COMPLETED, A FINAL INSPECTION AND MEASUREMENT WILL BE DONE. THE FINAL INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR AND CONSIST OF, BUT IS NOT LIMITED TO, CHECKING FOR PROPER ALIGNMENT, PROPER GRADE, CLEANLINESS, LEAKS, CONFORMANCE TO THE PLANS AND SPECIFICATION, PROPER STRUCTURAL AND MECHANICAL ADJUSTMENTS, AND RESTORATION. FINAL MEASUREMENT INCLUDES STRUCTURE ELEVATIONS, DISTANCES BETWEEN STRUCTURES, AND CONFIRMATION UTILITIES ARE LOCATED WITHIN EASEMENT AND RIGHT-OF-WAY AREAS.
- SUCCESSFUL COMPLETION OF ANY TEST OR INSPECTION SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO CORRECT ANY DEFICIENCY OR NONCONFORMANCE TO THE PLANS OR SPECIFICATIONS WHICH MAY THEREAFTER BECOME KNOWN.

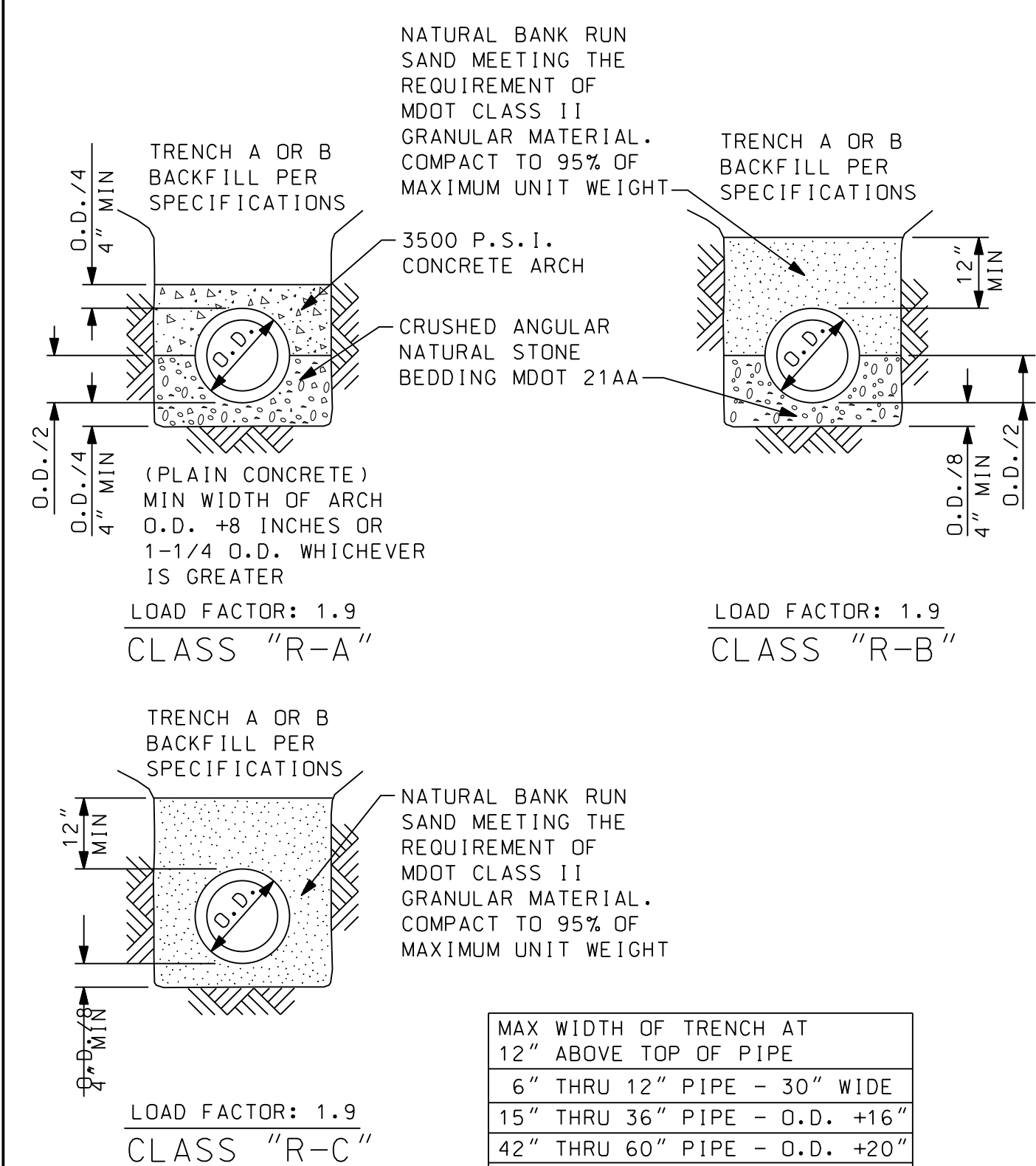


DIA OF SEWER	DIA OF MAIN	MIN "A"	ROAD CROSSING MIN "B"	RAILROAD CROSSING MIN "B"
6"	16"	.375	.375	.375
8"	16"	.375	.375	.375
10"	12"	.375	.438	.438
12" & 15"	20"	.375	.500	.500
18"	24"	.375	.500	.500

CASING PIPE SHALL BE WELDED STEEL PIPE A.S.T.M. A-252, GR 2 UNLESS OTHERWISE SPECIFIED.

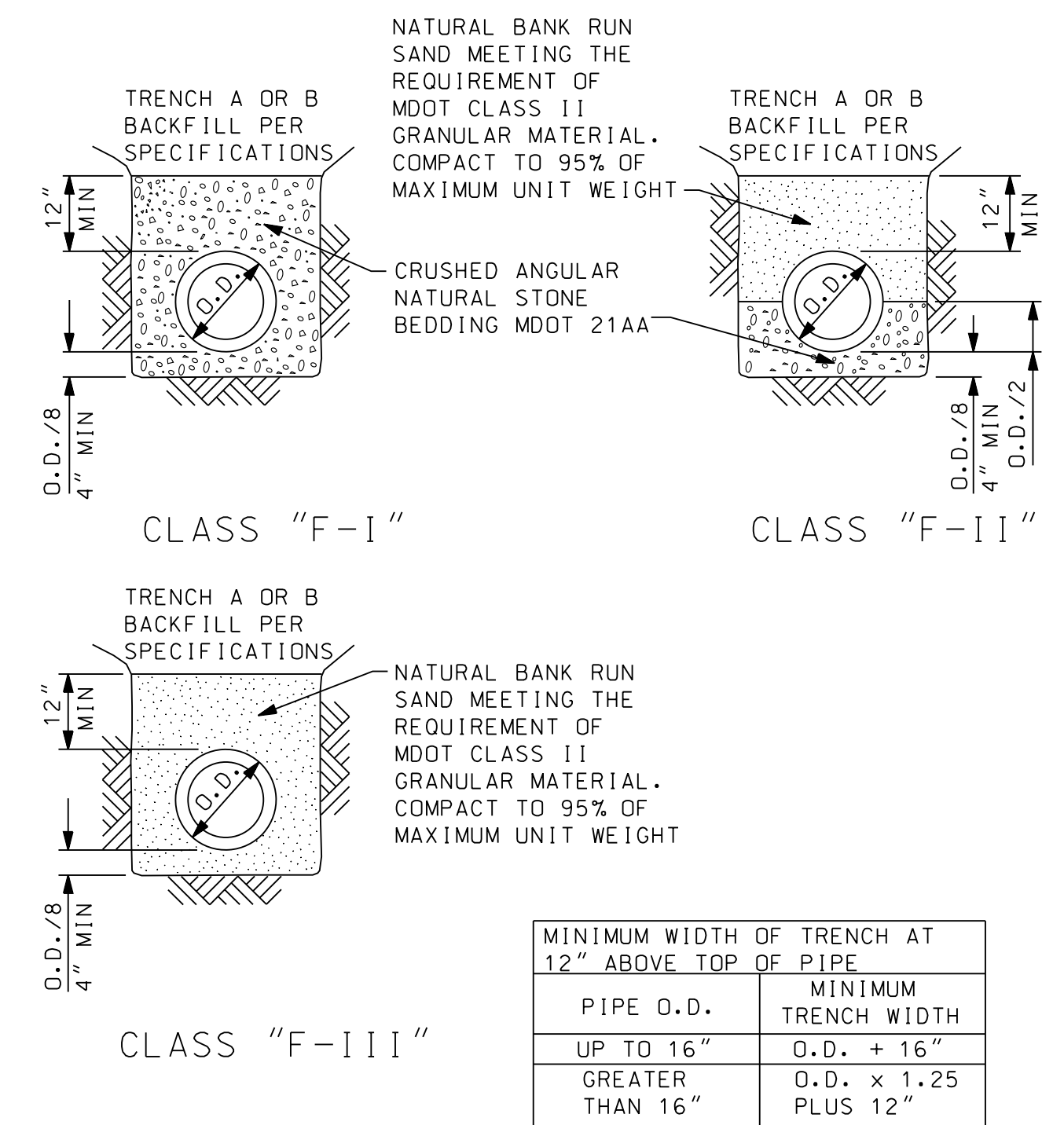
- NOTES:
- NO WATER SHALL BE USED IN BORING UNDER RAILROADS.
 - MAINTAIN MINIMUM OF 5'-6" OF COVER BETWEEN BASE OF RAIL AND TOP OF CASING.
 - THE ENDS OF THE CASING SHALL BE SUITABLY PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIAL, BUT SHALL NOT BE TIGHTLY SEALED.
 - WHEN BORING ALL VOIDS OUTSIDE OF CASING PIPE SHALL BE FILLED BY MEANS OF PRESSURE GROUTING WITH 1:3 CEMENT-SAND MORTAR. THIS WORK MUST BE ACCOMPLISHED WITHIN 24 HOURS AFTER THE CROSSING HAS BEEN COMPLETED. BORING SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE THE EDGES OF THE PAVEMENT.
 - SKIDS ARE TO BE MINIMUM OF 80% OF PIPE LENGTH.
 - CASING SPACERS AS ALLOWED BY THE ENGINEER.

STANDARD CASING SECTION



MAX WIDTH OF TRENCH AT 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE - 30" WIDE
15" THRU 36" PIPE - O.D. +16"
42" THRU 60" PIPE - O.D. +20"
OVER 60" PIPE - OUTSIDE DIAMETER OF PIPE +24"
MIN WIDTH OF TRENCH 12" ABOVE THE TOP OF PIPE SHALL BE 6" ON EACH SIDE OF PIPE

RIGID PIPE BEDDING DETAILS



MINIMUM WIDTH OF TRENCH AT 12" ABOVE TOP OF PIPE	
PIPE O.D.	MINIMUM TRENCH WIDTH
UP TO 16"	O.D. + 16"
GREATER THAN 16"	O.D. x 1.25 PLUS 12"

FLEXIBLE PIPE BEDDING DETAILS

PROJECT MANAGER: FIELD BOOK INFORMATION: NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: 26251 Northline Rd. PO Box 10 Taylor, MI 48180 www.wadetrims.com

NO.	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

26251 Northline Rd.
PO Box 10
Taylor, MI 48180
www.wadetrims.com

CITY OF TAYLOR

STANDARD MISCELLANEOUS DETAILS (MD-1)

ISSUED FOR: DATE: BY:

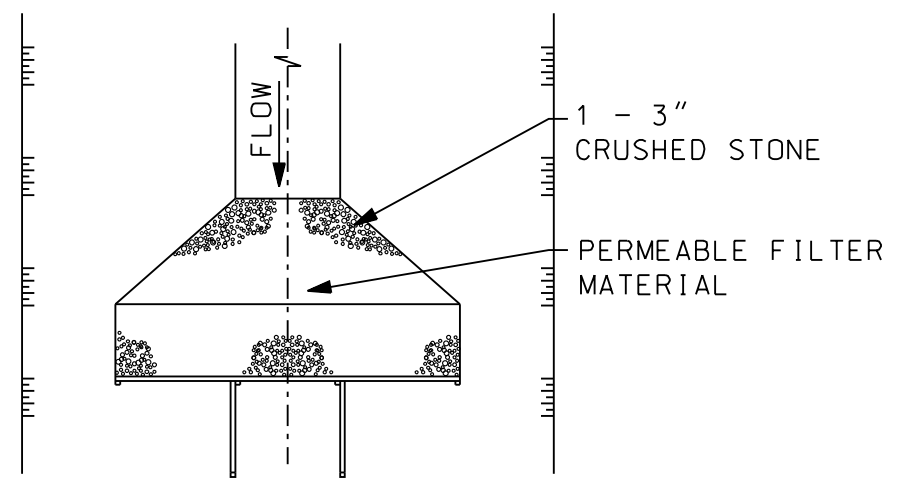
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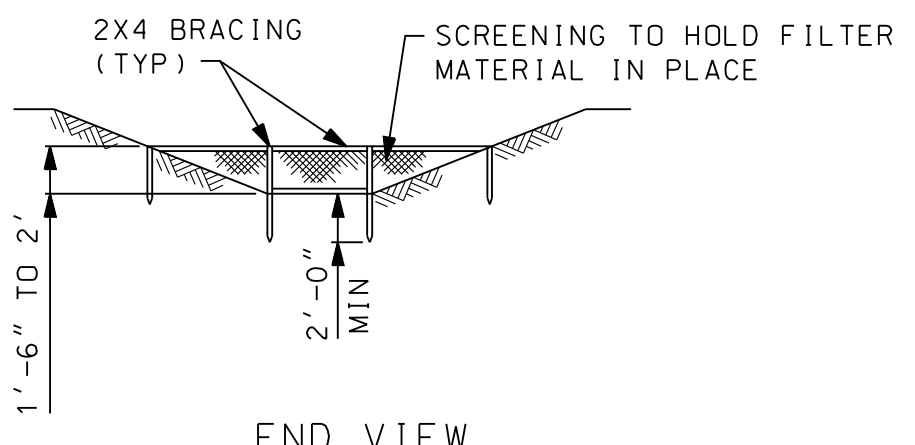
MD-1

STANDARD MISCELLANEOUS DETAILS (MD-1)

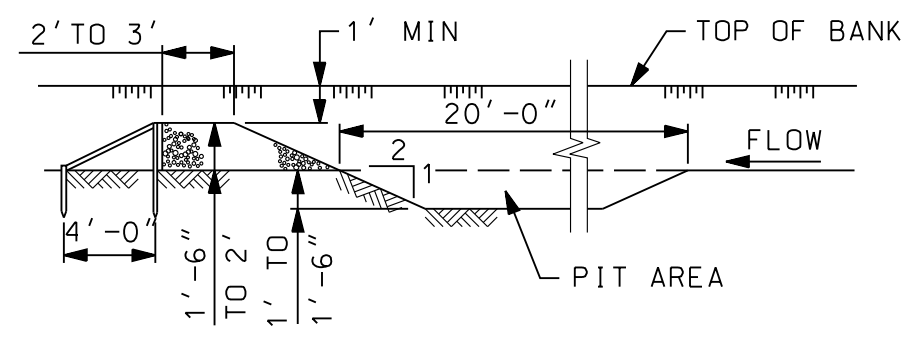
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PLAN VIEW



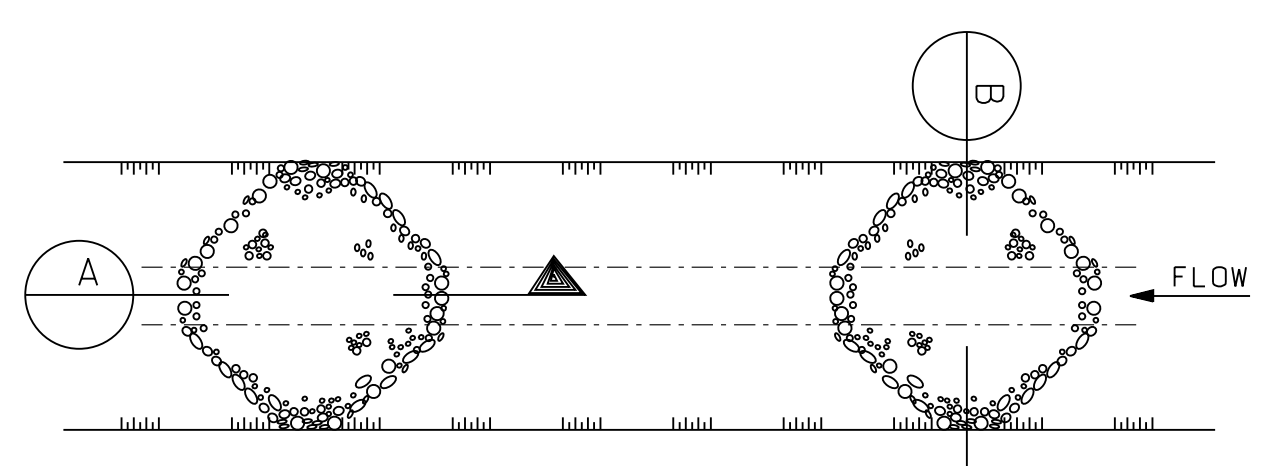
END VIEW



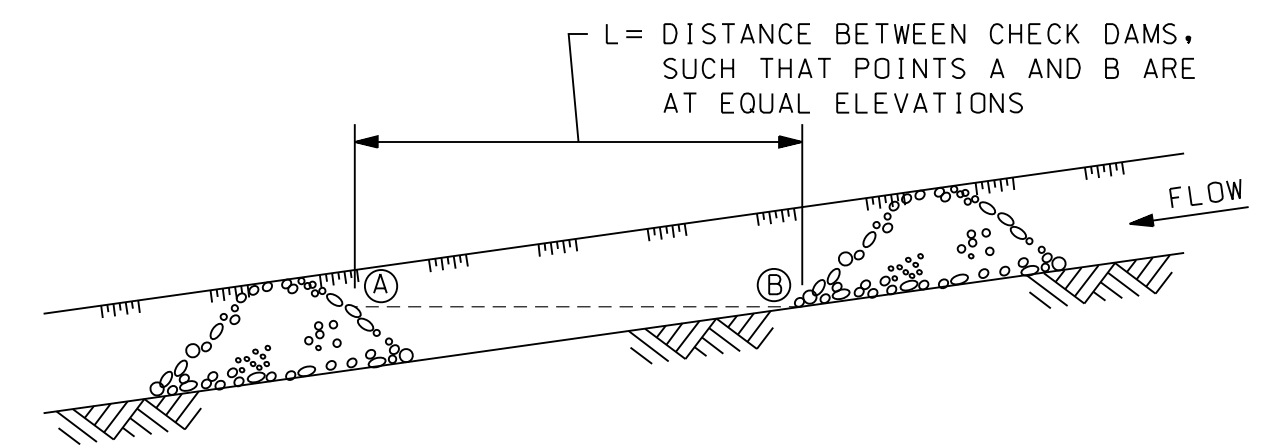
SECTION

- NOTES:
1. PLACE DITCH SEDIMENT TRAP PRIOR TO ON-SITE CONSTRUCTION WORK.
 2. MAINTAIN DITCH SEDIMENT TRAP IN GOOD OPERATION DURING PROJECT & REMOVE AT END OF PROJECT.
 3. CHANNEL TO BE RESTORED TO ORIGINAL CONDITION OR BETTER AS DIRECTED BY THE ENGINEER.
 4. CRUSHED STONE INCLUDED WITH DITCH SEDIMENT TRAP.

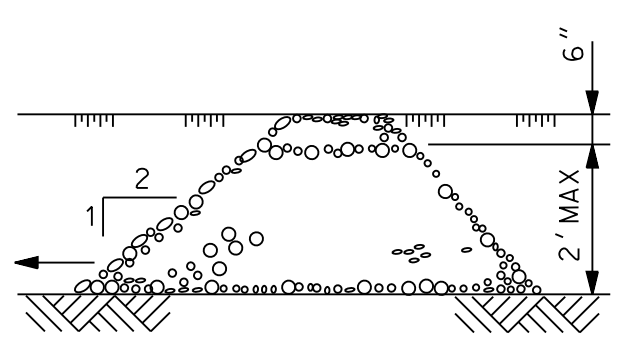
DITCH SEDIMENT TRAP
NOT TO SCALE



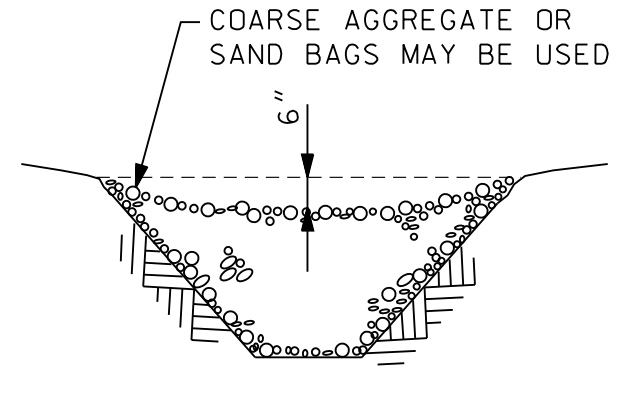
PLAN VIEW



CROSS-SECTION



SECTION A-A



SECTION B-B

- NOTE:
- CHECK DAMS GREATER THAN TWO FEET IN DEPTH MAY SERIOUSLY IMPACT THE FLOW CHARACTERISTICS OF THE DITCH.

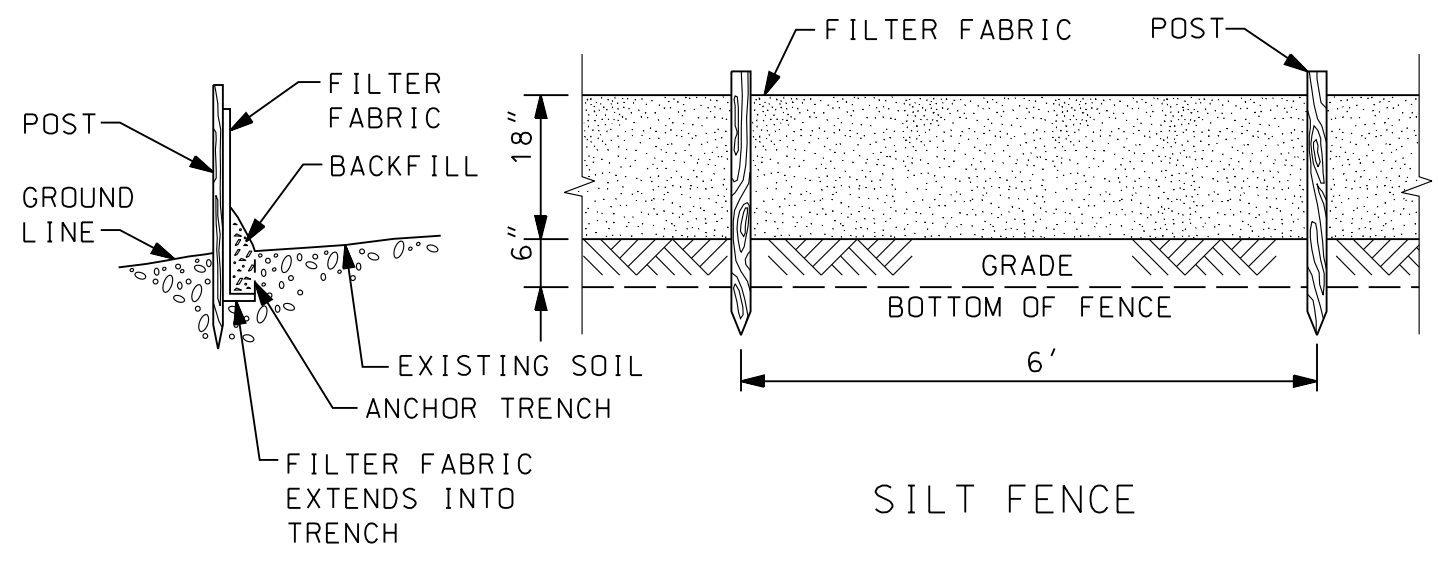
CHECK DAMS
NOT TO SCALE

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
2. ALL SOIL EROSION CONTROL MEASURES SHALL BE CHECKED A MINIMUM OF ONCE PER WEEK AND WITHIN A MINIMUM OF 24 HOURS AFTER EVERY RAINFALL. ANY SOIL EROSION CONTROL MEASURES DAMAGED OR RENDERED INEFFECTIVE SHALL BE IMMEDIATELY REPAIRED OR REMOVED AND REPLACED AT NO ADDITIONAL COST.
3. EROSION AND ANY SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. ALL SOIL EROSION AND SEDIMENTATION CONTROL (SESC) DEVICES SHALL BE INSTALLED PRIOR TO CONTRACTOR BEGINNING ANY WORK. ALL SESC DEVICES SHALL BE MAINTAINED IN AN EFFECTIVE, FUNCTIONING CONDITION AT ALL TIMES DURING THE COURSE OF THE WORK. ALL TEMPORARY SESC DEVICES SHALL BE REMOVED AND THE AREA RESTORED AFTER THE PERMANENT SESC MEASURES ARE INSTALLED AND FUNCTIONING.
5. DEBRIS FROM THE PROJECT SHALL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME INEFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXITS.
6. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE. ANCHOR MULCH WITH DISC-TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE AGENCY WITH JURISDICTION.
7. ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
8. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN FIVE CALENDAR DAYS AND SOD PEGGED IN PLACE.
9. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE. IN NO EVENT SHALL WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.

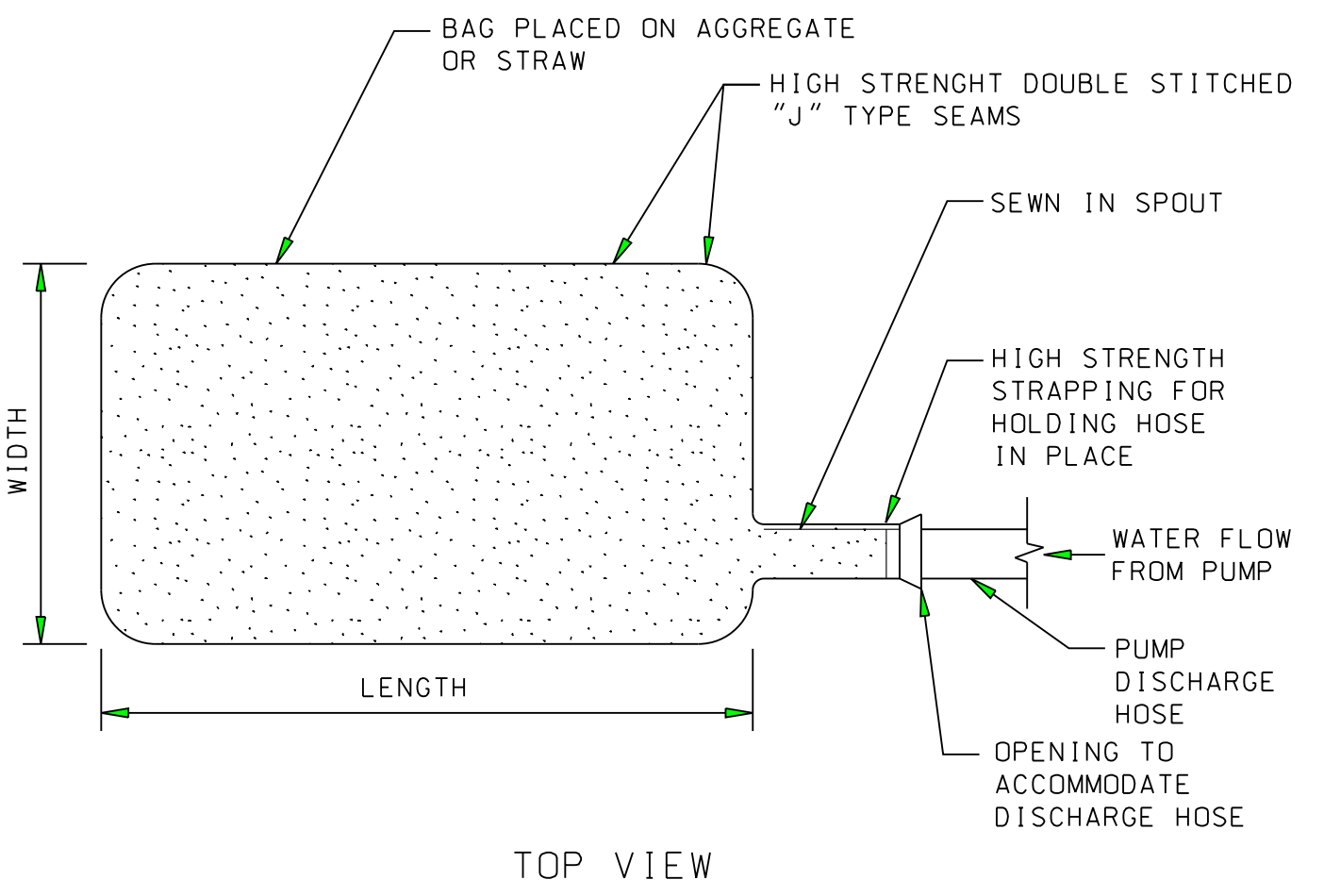
SOIL EROSION AND SEDIMENTATION CONTROL NOTES

10. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO DEWATER THE GROUND IN THE COURSE OF CONSTRUCTING THE PROPOSED UTILITY, THE CONTRACTOR SHALL FILTER ALL DISCHARGE THROUGH A DISCHARGE FILTER BAG THAT WILL FILTER ALL DISCHARGED WATER FROM THE DEWATERING OPERATION. IN NO INSTANCE SHALL THE DEWATERING DISCHARGE BE PERMITTED TO FLOW UNFILTERED FROM THE CONSTRUCTION SITE.
11. THE CONTRACTOR SHALL CONTROL THE DUST ON THE SITE DURING THE LIFE OF THE CONTRACT. IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE COMMUNITY THIS DUST CONTROL SHALL BE ACCOMPLISHED BY THE APPLICATION OF A POSITIVE DUST PICK-UP METHOD WITH WATER ON HARD SURFACES. SUCH DUST CONTROL MATERIALS SHALL BE APPLIED AS OFTEN AS IS NECESSARY IN THE OPINION OF THE COMMUNITY TO CONTROL THE DUST.
12. SHOULD THE SOIL EROSION CONTROL REQUIREMENTS BE NEGLECTED OR NOT ADEQUATELY FOLLOWED, THE COMMUNITY MAY REQUIRE THE CONTRACTOR TO CEASE CONSTRUCTION OPERATIONS AND TO APPLY HIS ENTIRE FORCE TO MEET THE REQUIREMENTS BEFORE PROCEEDING FURTHER WITH THE PROJECT.
13. SOIL EROSION AND SEDIMENTATION CONTROL SHALL BE IN ACCORDANCE WITH PART 91 SOIL EROSION AND SEDIMENTATION CONTROL (SESC), OF THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (NREPA), 1994 PA 451, AS AMENDED.
14. AS SOON AS POSSIBLE, COMPLETE FINAL GRADING AND PLACING OF PERMANENT SOIL EROSION CONTROL DEVICES. AFTER ESTABLISHMENT OF PERMANENT VEGETATION, REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES.

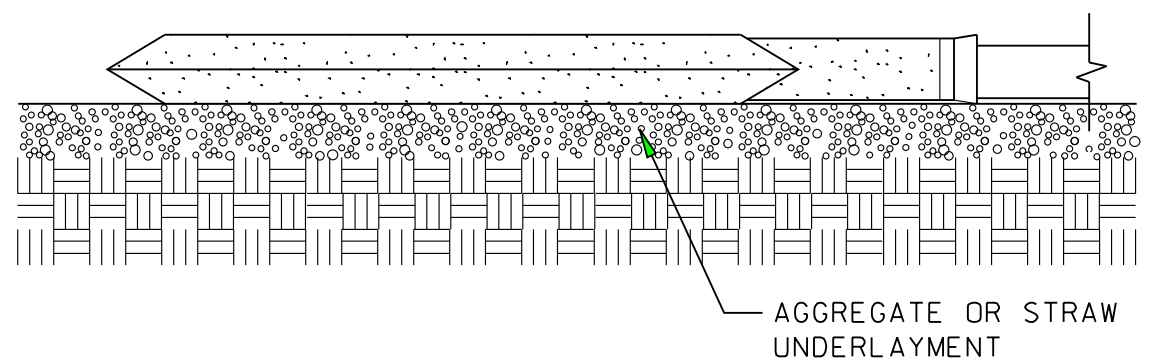


SILT FENCE

SILT FENCE
NOT TO SCALE

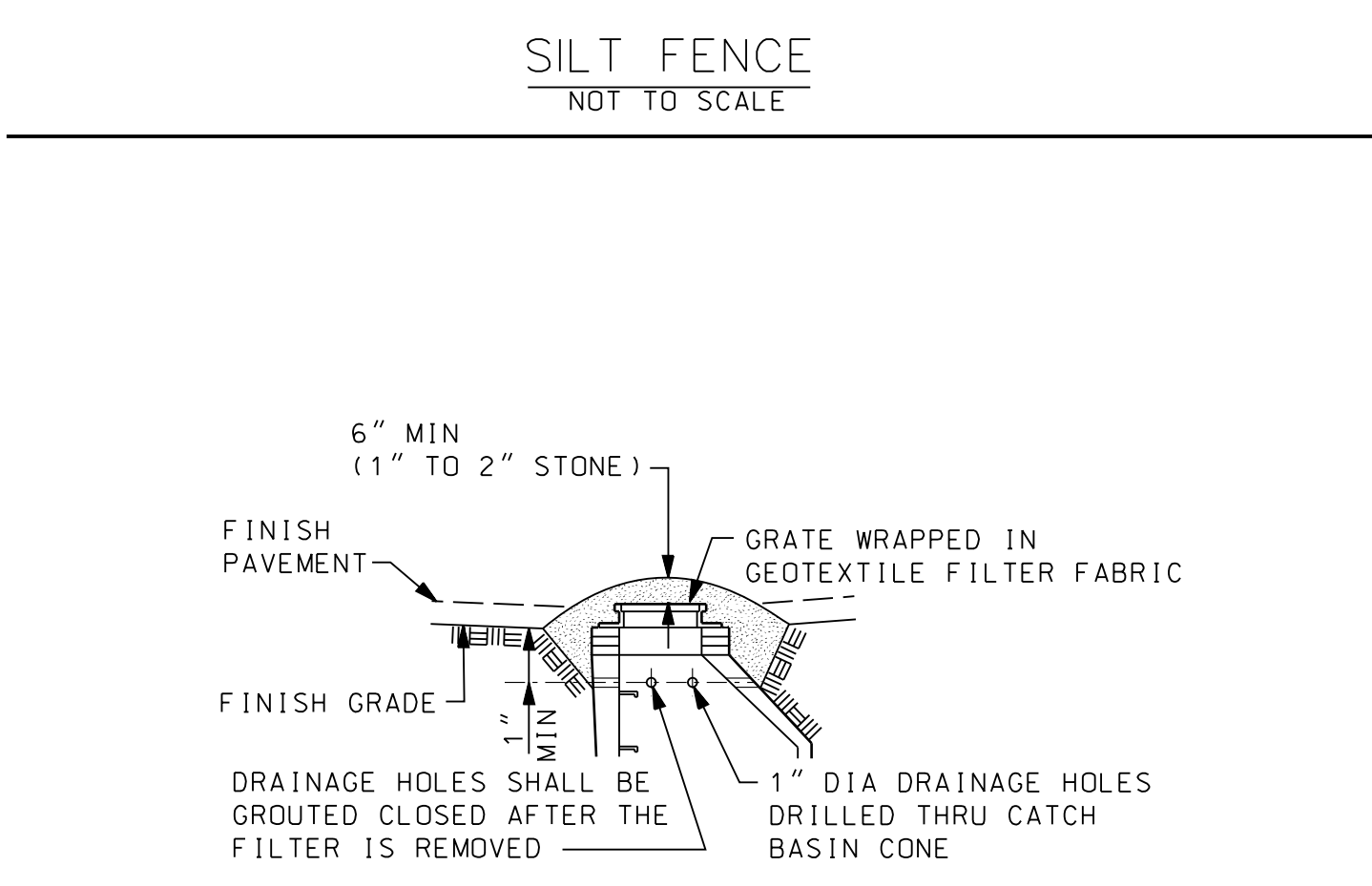


TOP VIEW

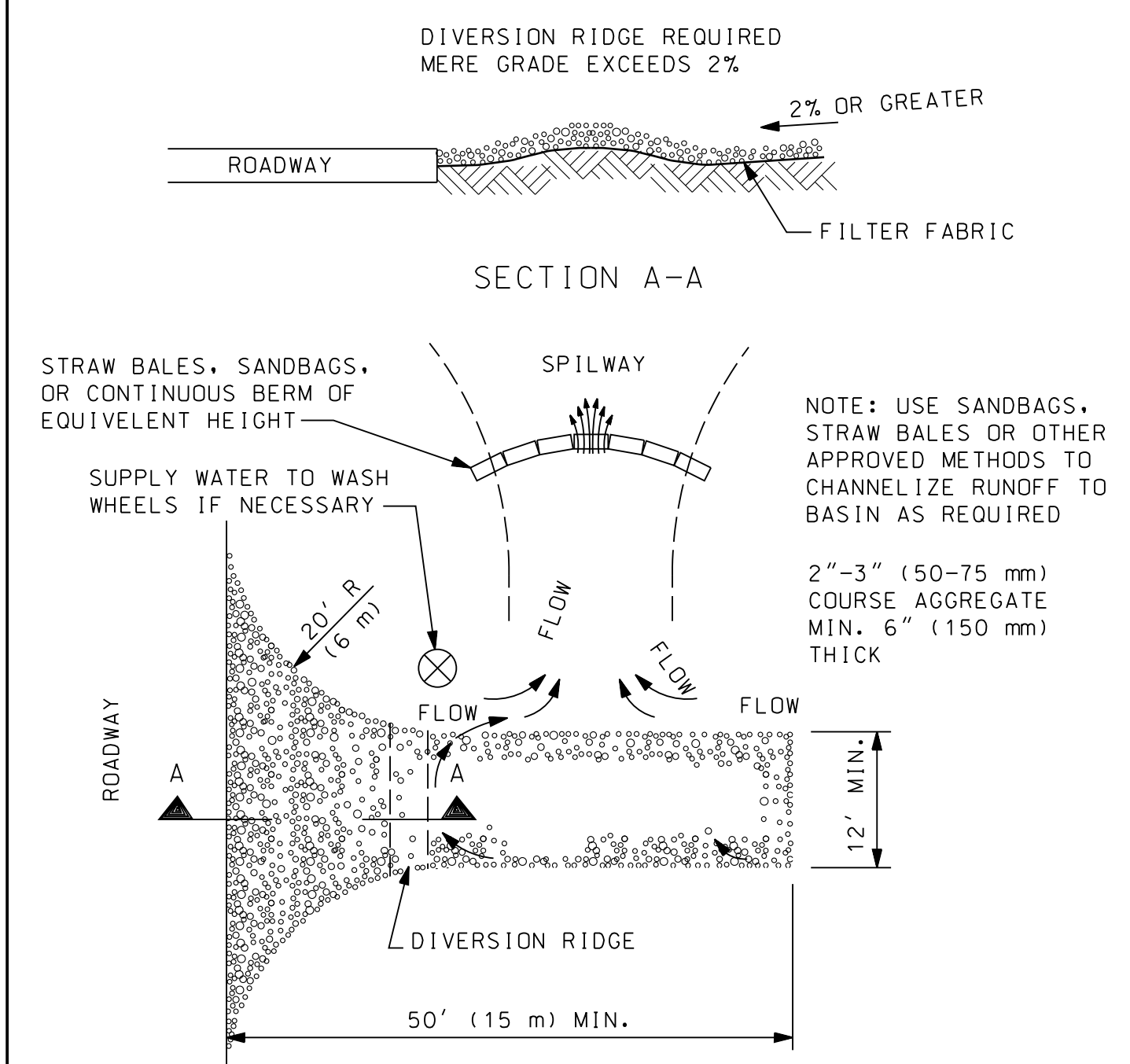


SIDE VIEW

DEWATERING FILTER BAG DETAIL
NOT TO SCALE



DRAINAGE STRUCTURE FILTER
NOT TO SCALE



SECTION A-A

- NOTE: USE SANDBAGS, STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED
- 2"-3" (50-75 mm) COURSE AGGREGATE MIN. 6" (150 mm) THICK

- NOTE:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION
ENTRANCE/EXIT
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY

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CITY OF TAYLOR

STANDARD SOIL EROSION AND SEDIMENTATION CONTROL DETAILS (SE-1)

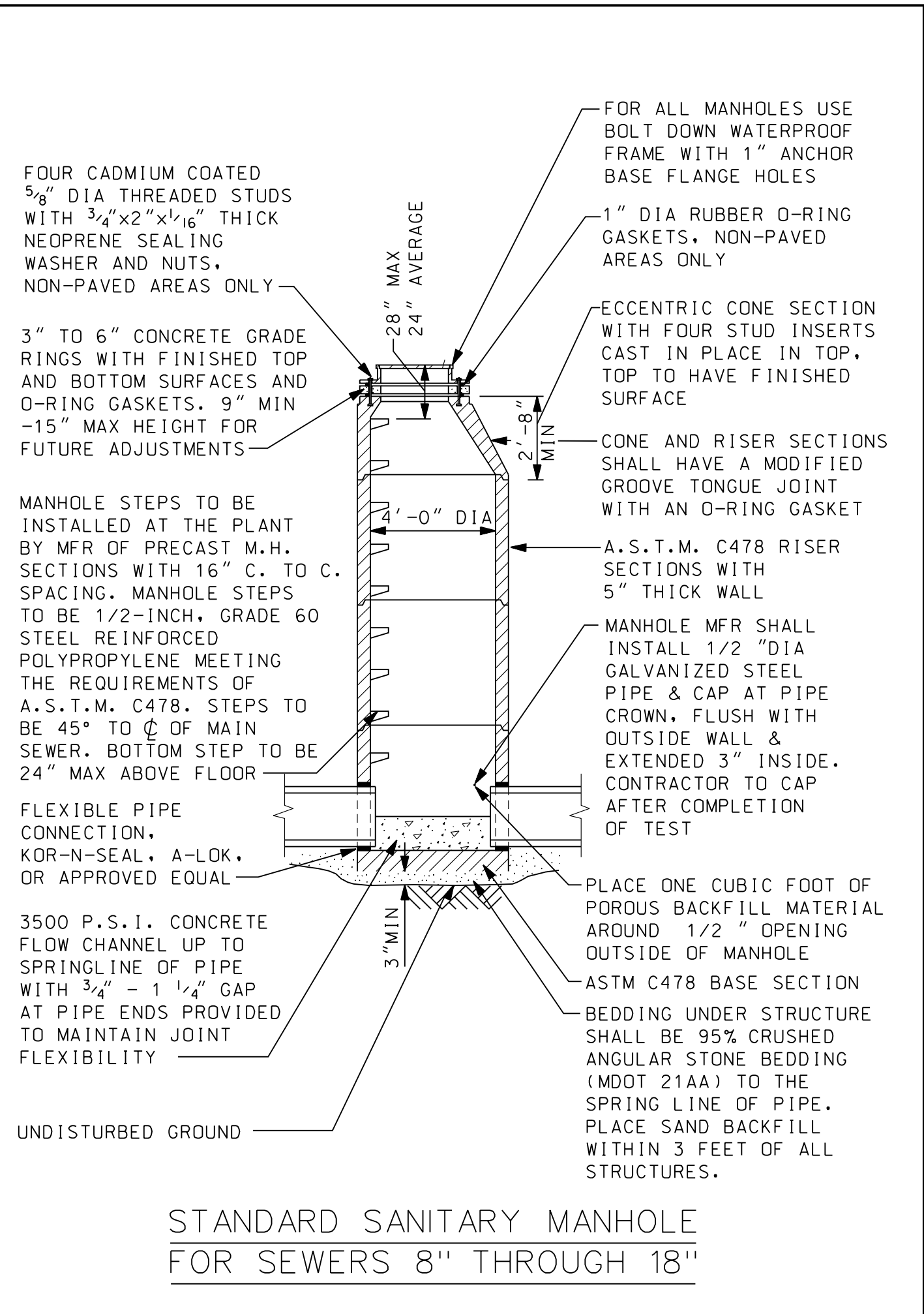
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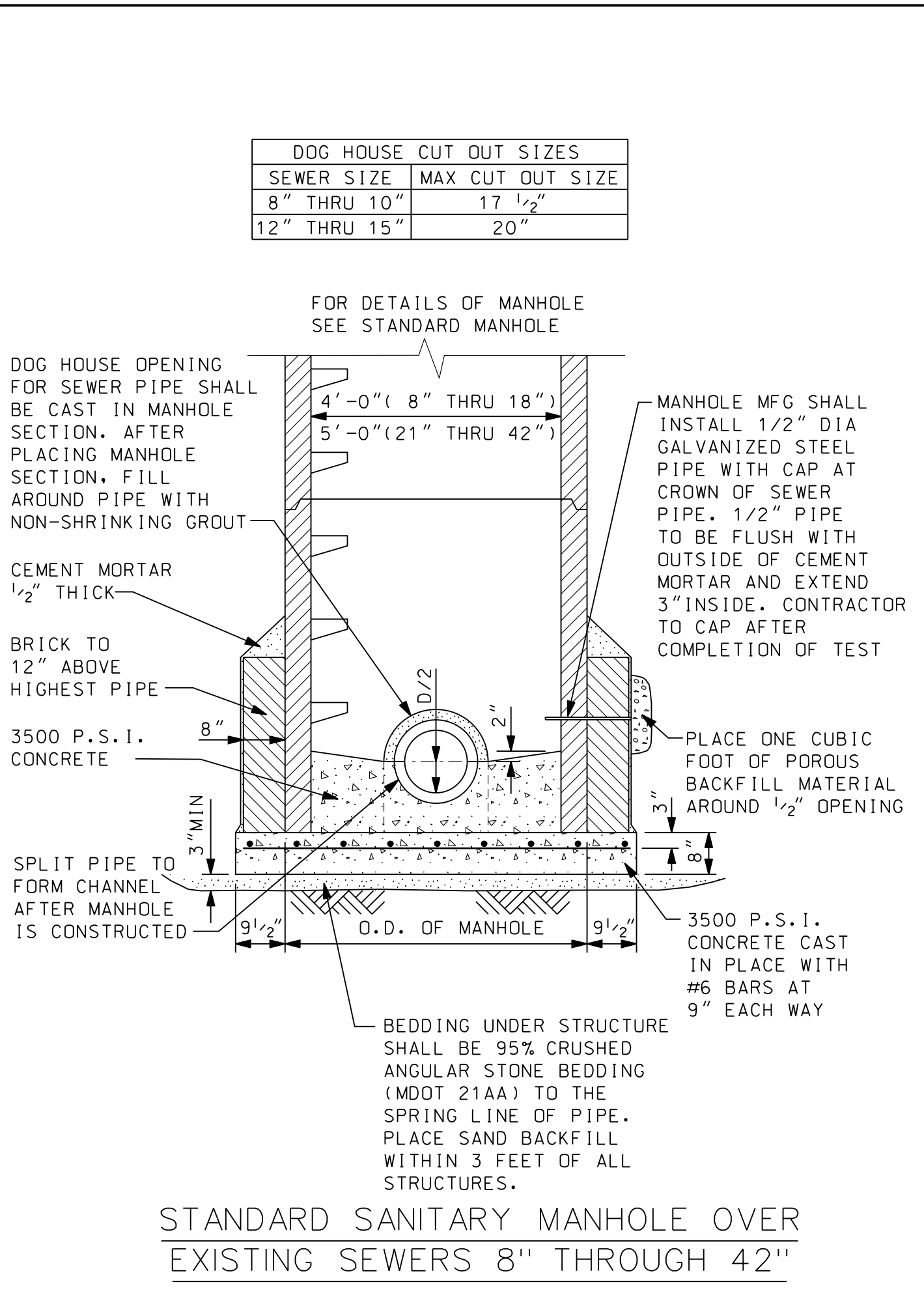
SHEET

SE-1

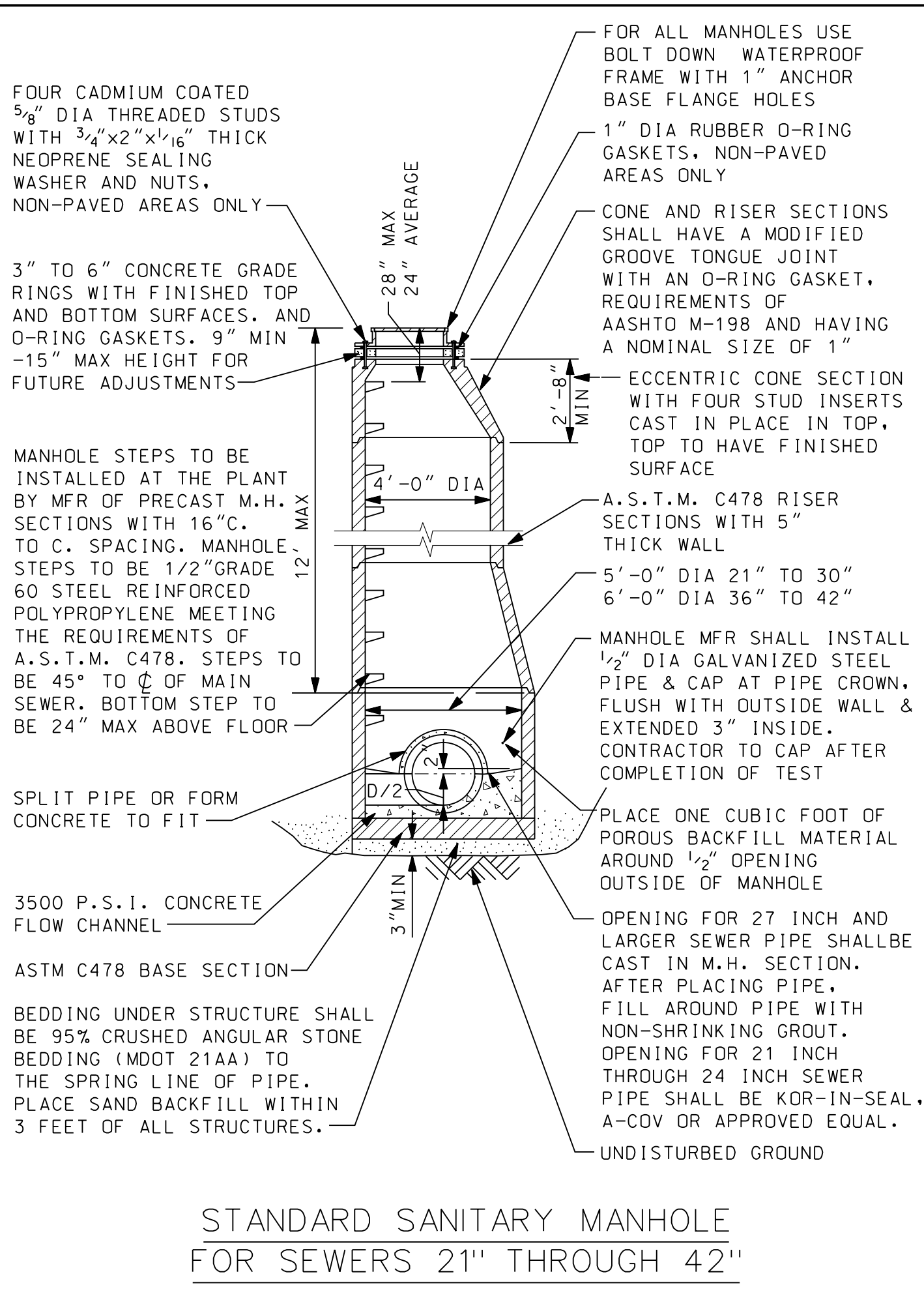
© Waste Trim Group, Inc. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS (SE-1)



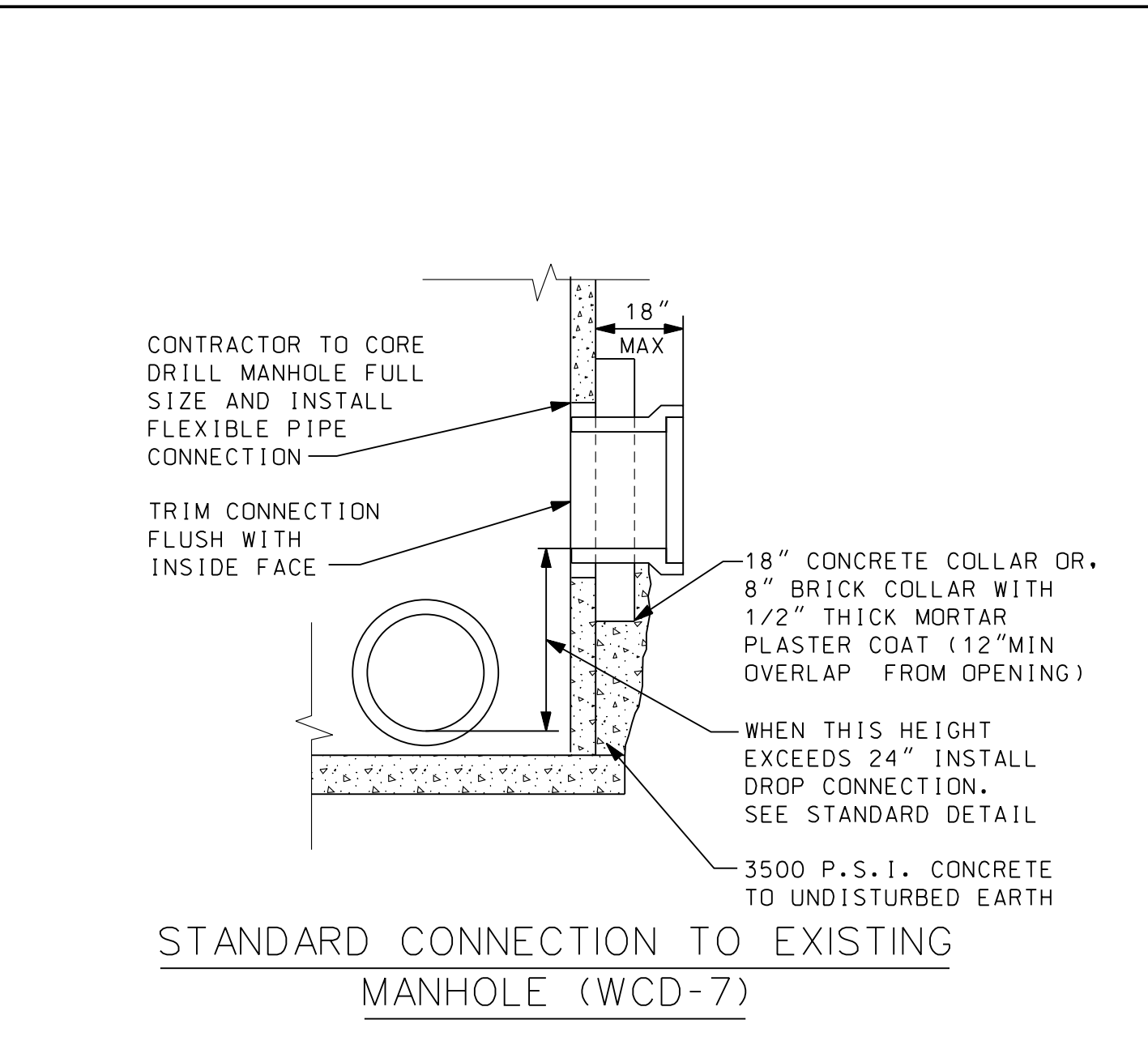
STANDARD SANITARY MANHOLE FOR SEWERS 8" THROUGH 18"



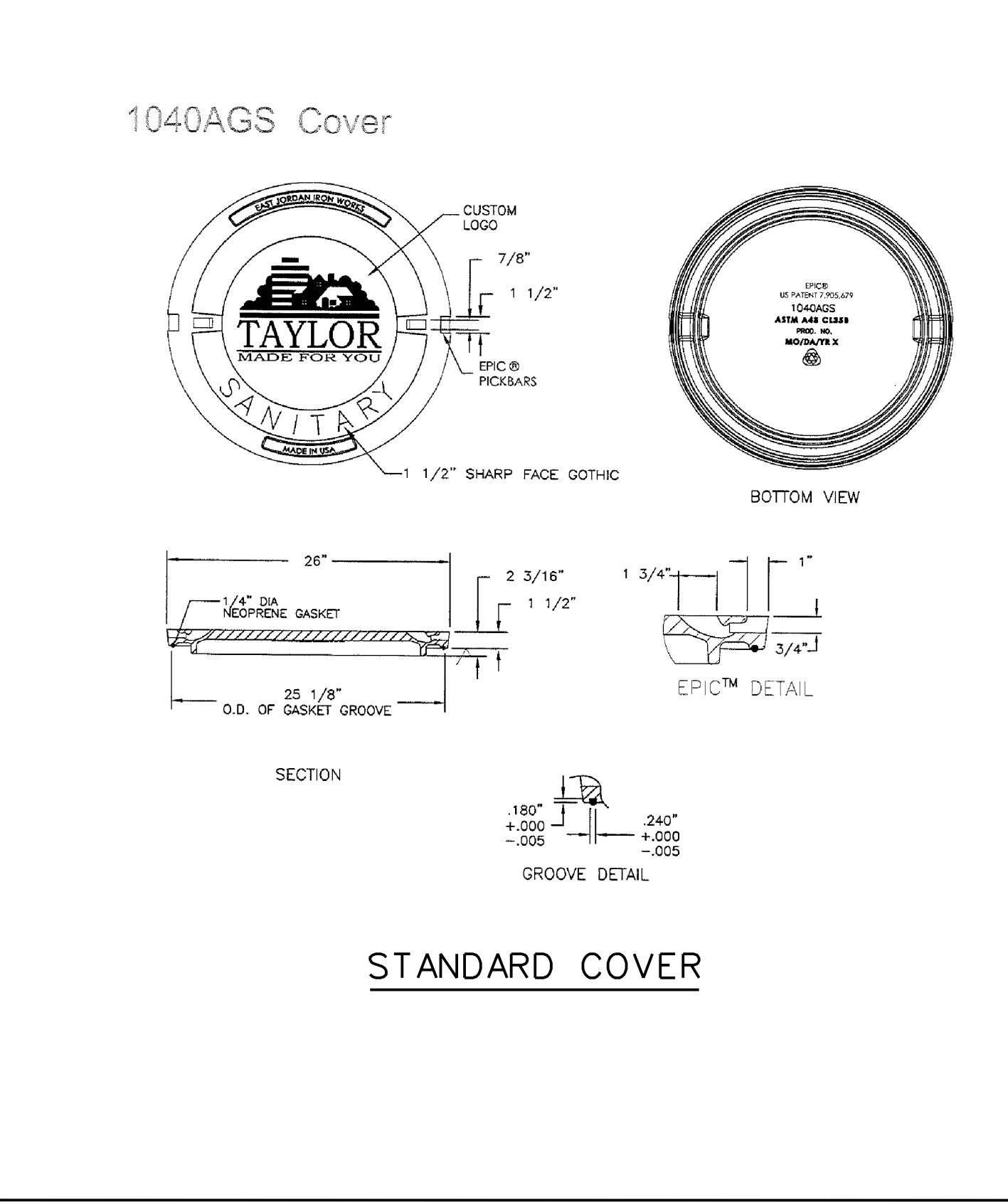
STANDARD SANITARY MANHOLE OVER EXISTING SEWERS 8" THROUGH 42"



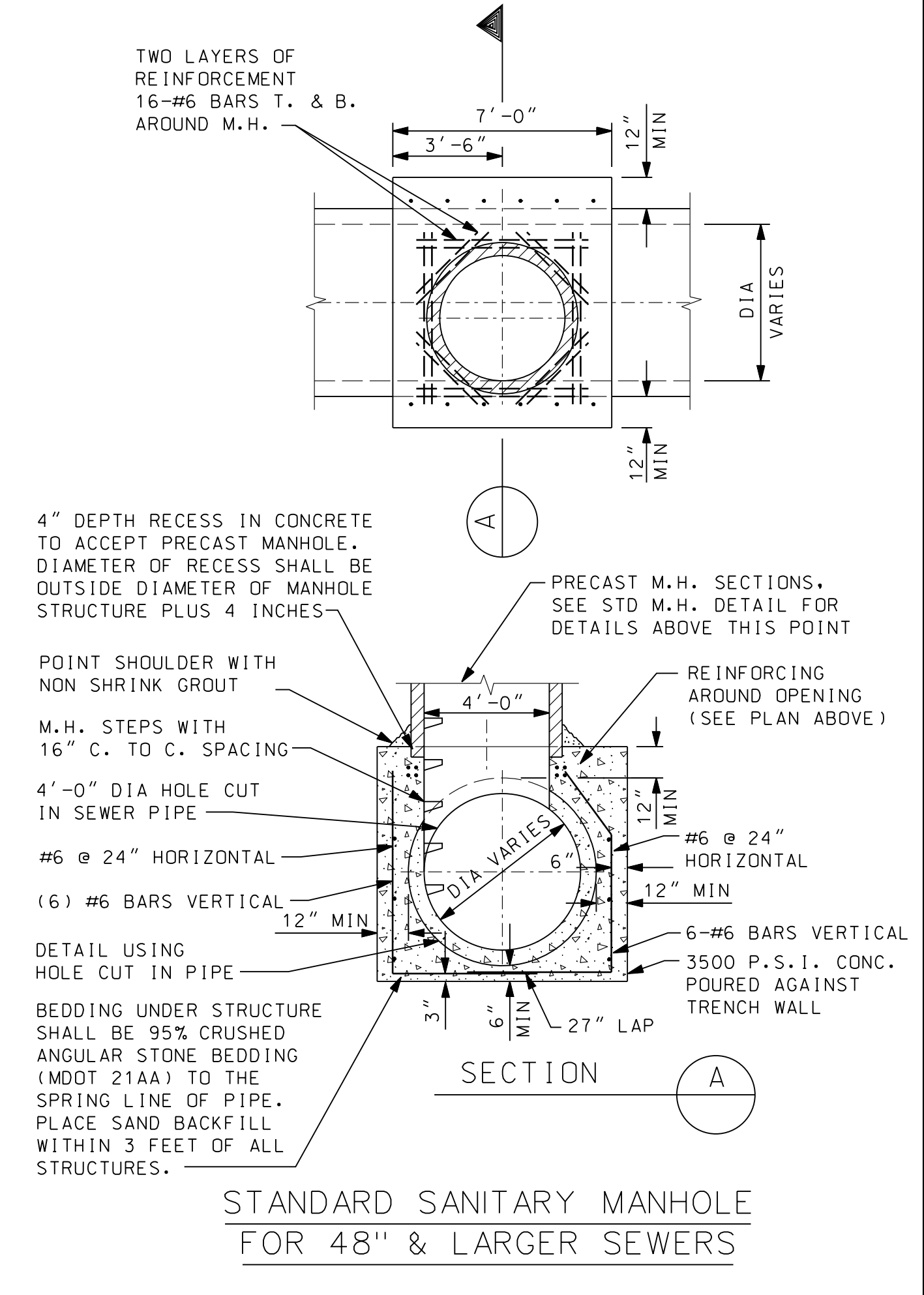
STANDARD SANITARY MANHOLE FOR SEWERS 21" THROUGH 42"



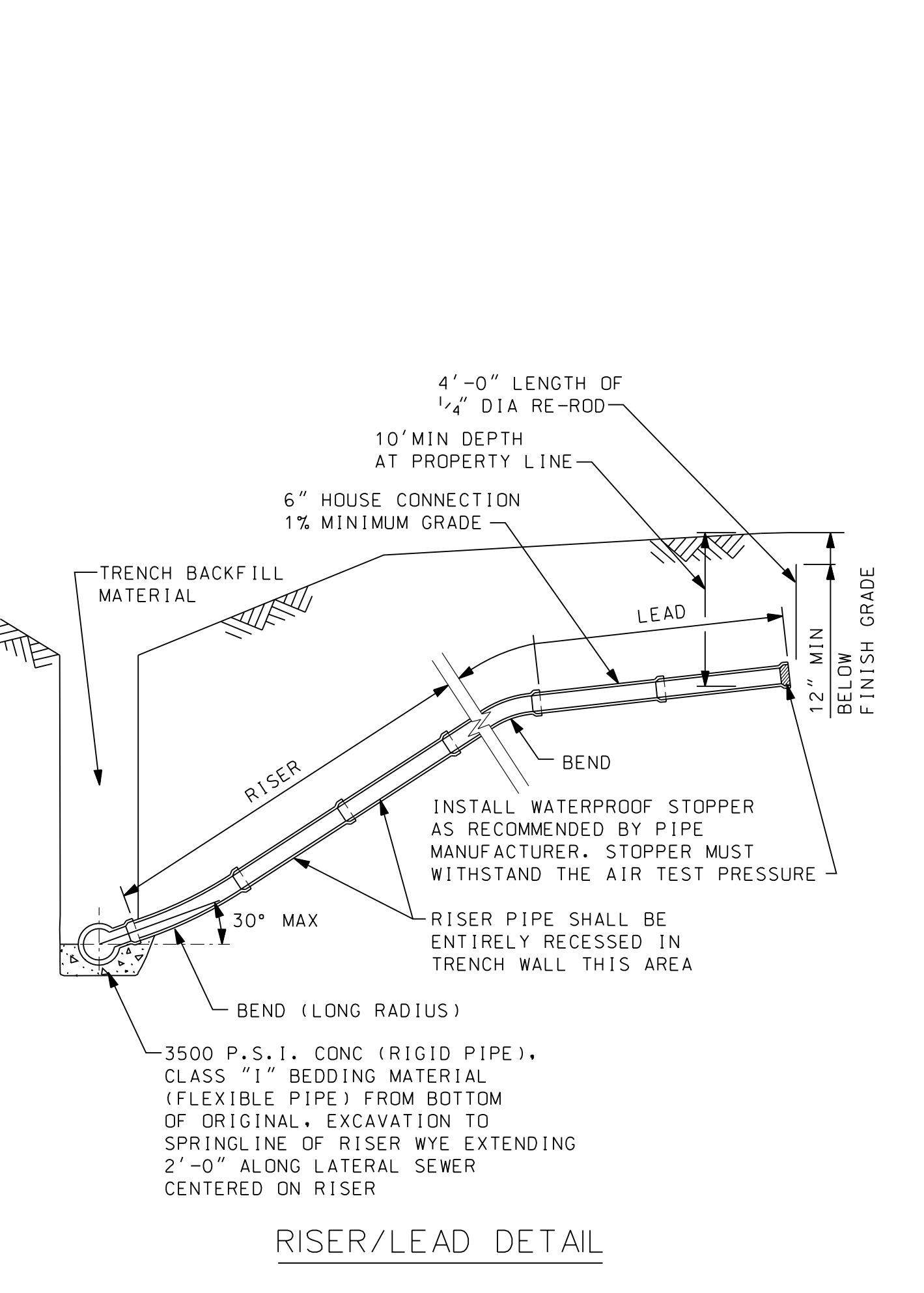
STANDARD CONNECTION TO EXISTING MANHOLE (WCD-7)



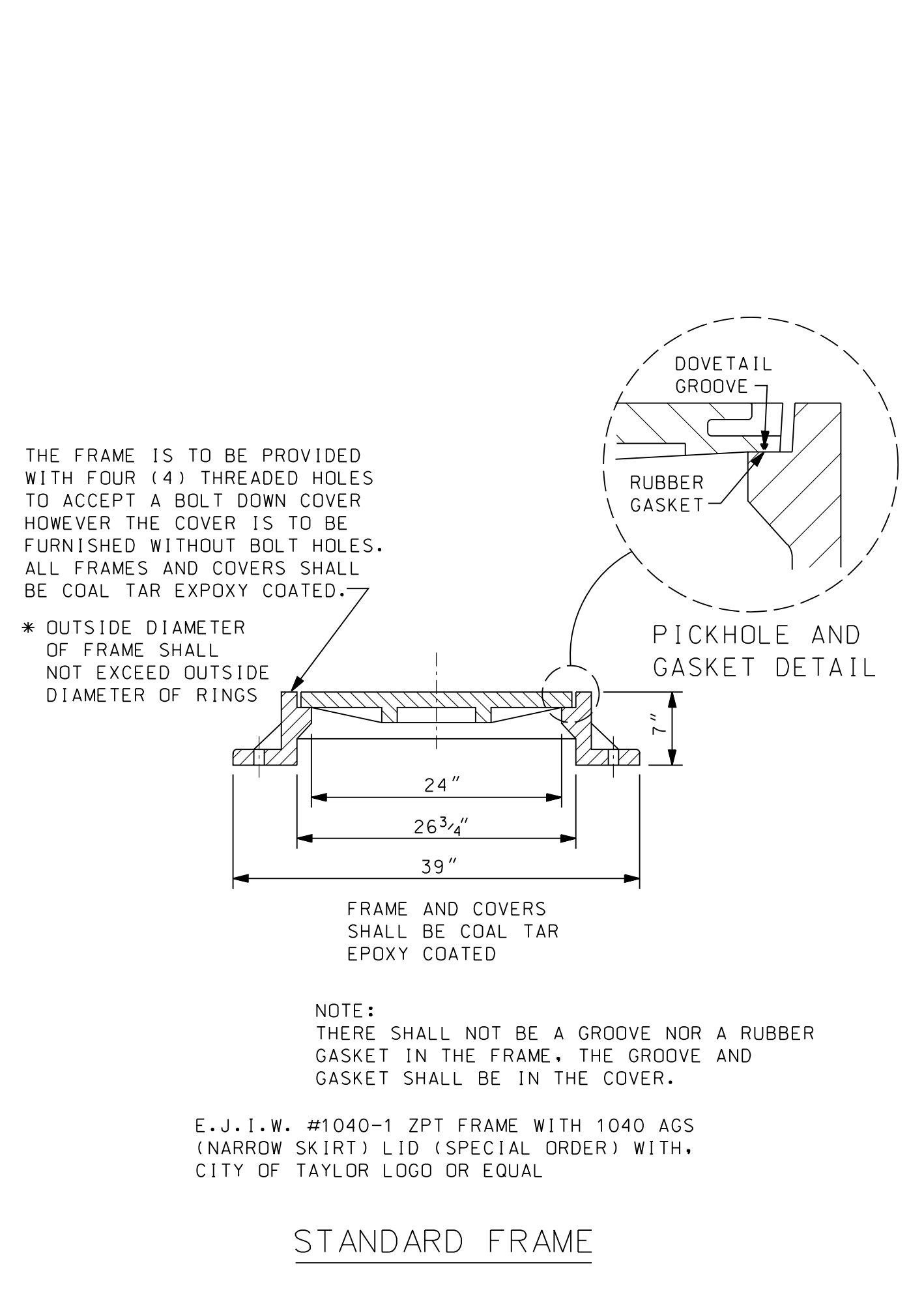
EXTERIOR DROP CONNECTION



STANDARD SANITARY MANHOLE FOR 48" & LARGER SEWERS



RISER/LEAD DETAIL



STANDARD FRAME

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WADE TRIM

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CITY OF TAYLOR
STANDARD SANITARY SEWER DETAILS (SS-1)

ISSUED FOR: DATE: BY:

JOB NO.

SHEET

SS-1

PROJECT MANAGER: FIELD BOOK INFORMATION: PROJECT: STANDARD SANITARY SEWER DETAILS (SS-1) DATE: 3/17/2021 3:40:10 PM BY: mlfmasp

CITY OF TAYLOR NOTES

- SANITARY SEWER MAIN PIPE SHALL BE A MINIMUM OF 10-INCH DIAMETER:
 - REINFORCED CONCRETE ASTM C76, CL-IV WITH PREMIUM RUBBER JOINTS
 - VITRIFIED CLAY, ASTM C700 E.S., WITH RUBBER JOINTS PER ASTM C425
 - PVC TRUSS PIPE PIPE, ASTM D2680, WITH GASKETED JOINTS PER ASTM D3212
 - PVC SOLID WALL PIPE, ASTM D3034, SDR 26 FOR SIZES 8-INCH THROUGH 15-INCH PIPE, OR ASTM F679 FOR SIZES 18-INCH THROUGH 27-INCH. PLASTIC PIPE SHALL NOT BE USED IN INDUSTRIAL AREAS.
- SANITARY SEWER LEADS SHALL BE: C700 ES VITRIFIED CLAY PIPE WITH PREMIUM JOINTS FOR INDUSTRIAL USE AND PVC PIPE, ASTM D3034, SDR 23.5, 6-INCH, AND SDR 26 FOR 8-INCH FOR COMMERCIAL AND RESIDENTIAL USE.
- THE REQUIRED PIPE BEDDING IS MAXIMUM 3/4-INCH DIAMETER CRUSHED STONE.
- TRENCH "A" BACKFILL MATERIAL USED MUST BE FREE OF LARGE LUMPS OF CLAY, DEBRIS, AND ROCKS.
- TRENCH "B" SAND BACKFILL IS REQUIRED FOR SANITARY SEWER TRENCH LOCATED UNDER OR WITHIN THREE FEET OF PAVEMENT.
- THE MINIMUM SLOPE FOR THE BUILDING LEAD IS 1.0 PERCENT.
- ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIRMENTS OF ASTM C-478.
- CLEANOUTS SHALL BE PROVIDED AT EVERY BEND, EVERY 100 LINEAL FEET AND PLACED 5 FEET FROM THE BUILDING.
- FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:
 - A. FRAME SHALL BE EJ 1040-1ZPT
 - B. COVER SHALL BE 1040AGS (SANITARY) WITH CITY LOGO

SANITARY SEWER NOTES

- ALL SEWER SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE COMMUNITY SEWER DEPARTMENT AND ANY OTHER AGENCY HAVING JURISDICTION OF THE CONSTRUCTION AREA.
- DETAILS ARE FOR STRUCTURES WITH NO MORE THAN TWO PIPES ENTERING, 180° APART. LARGER DIAMETER STRUCTURES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS.
- THE MANHOLE STRUCTURE REQUIRES A MINIMUM OF 8 INCHES OF CONCRETE WALL BETWEEN PIPE OPENINGS. LARGER DIAMETER STRUCTURES MAY BE REQUIRED WHERE PIPE ENTERING THE STRUCTURE ARE LESS THAN 90° APART IN ANY DIRECTION.
- CONSTRUCTION SHALL NOT COMMENCE WITHOUT A REPRESENTATIVE OF THE OWNER PRESENT.
- ALL MANHOLES SHALL USE ECCENTRIC CONES PLACED WITH STEPS AWAY FROM THE ROAD UNLESS DIRECTED OTHERWISE.
- ALL MANHOLES SHALL BE PROVIDED WITH WATER TIGHT MANHOLE COVERS AND RIMS SHALL BE SET TO GRADE OR AS INDICATED ON THE PLANS.
- ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIRMENTS OF ASTM C-478.
- DIFFERENTIAL OF EXCAVATION AROUND EXISTING MANHOLES SHALL NOT EXCEED SIX FEET.
- EXTERIOR DROP CONNECTIONS ARE REQUIRED WHENEVER A SEWER INVERT IS 2.0 FEET OR GREATER ABOVE THE MANHOLE FLOW CHANNEL INVERT. INTERIOR DROP CONNECTIONS ARE NOT ALLOWED.
- NO SEWERS SHALL BE CONSTRUCTED LESS THAN 10-INCH DIAMETER WITHOUT SPECIFIC APPROVAL OF THE COMMUNITY SEWER DEPARTMENT.
- ALL RIGID SANITARY SEWER PIPE SHALL BE CLASS "R-B" BEDDING, ALL FLEXIBLE PIPE SHALL BE CLASS "F-1" BEDDING, UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET MD1 FOR BEDDING DETAILS.
- PLACE ONE 6-INCH WYE FOR EACH LOT OR PARCEL 100 FEET OR LESS IN WIDTH OR EVERY 100 FEET FOR LOTS OR PARCELS IN EXCESS OF 100 FEET ON SANITARY SEWERS UNLESS OTHERWISE NOTED.
- NO CONNECTION RECEIVING STORM WATER, SURFACE WATER, OR GROUND WATER SHALL BE MADE TO SANITARY SEWERS.
- NO FOOTING DRAINS SHALL BE CONNECTED TO THE BUILDINGS SANITARY SEWER.
- RISERS ON SANITARY SEWERS SHALL BE INSTALLED TO A DEPTH OF 10 FEET WHERE SEWER IS OVER 12 FEET.
- PRIOR TO THE BACKFILLING OF A SERVICE LEAD, A 2" BY 2" PIECE OF WOOD SHALL BE PLACED FROM A POINT IMMEDIATELY IN FRONT OF THE SERVICE CONNECTION TO 2-FOOT BELOW THE FINISH GROUND SURFACE. DO NOT REST THE MARKER ON ANY PORTION OF THE SERVICE CONNECTION OR STOPPER.

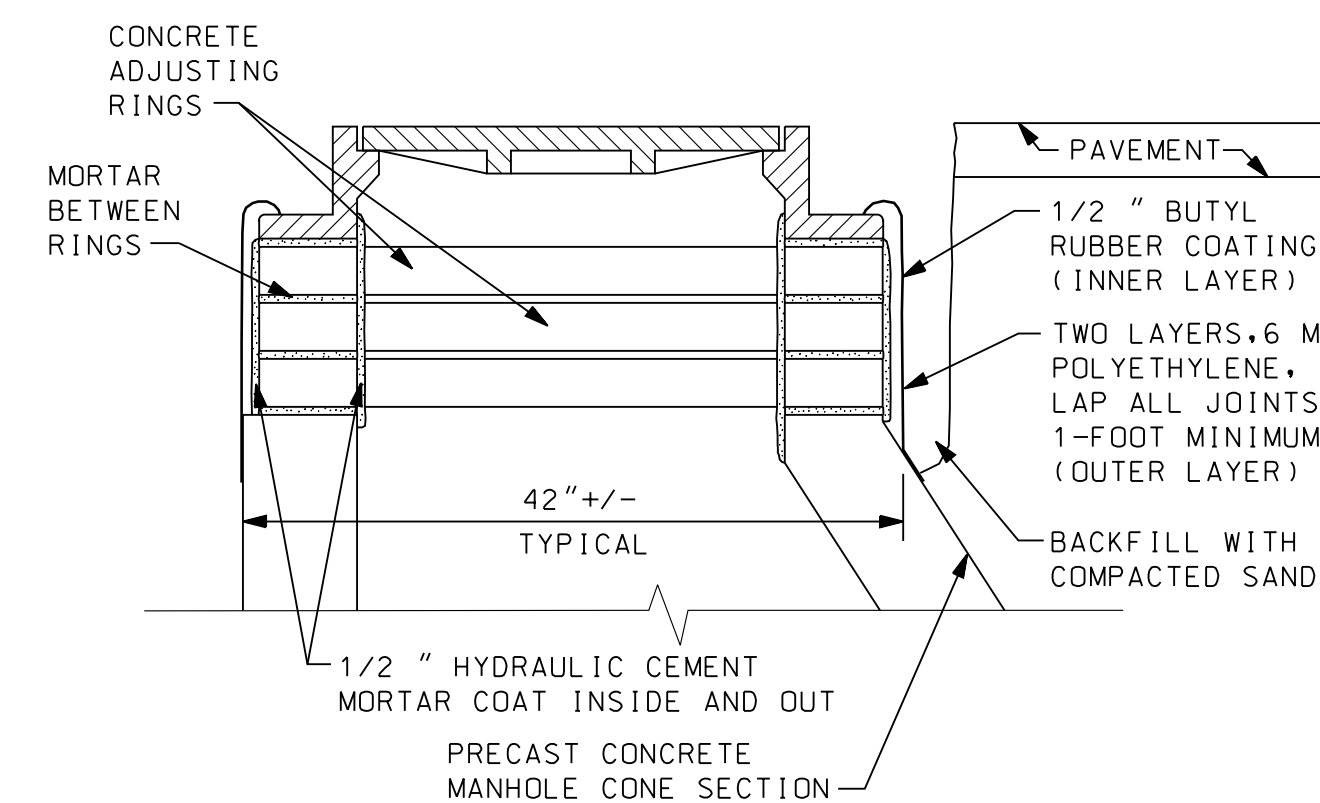
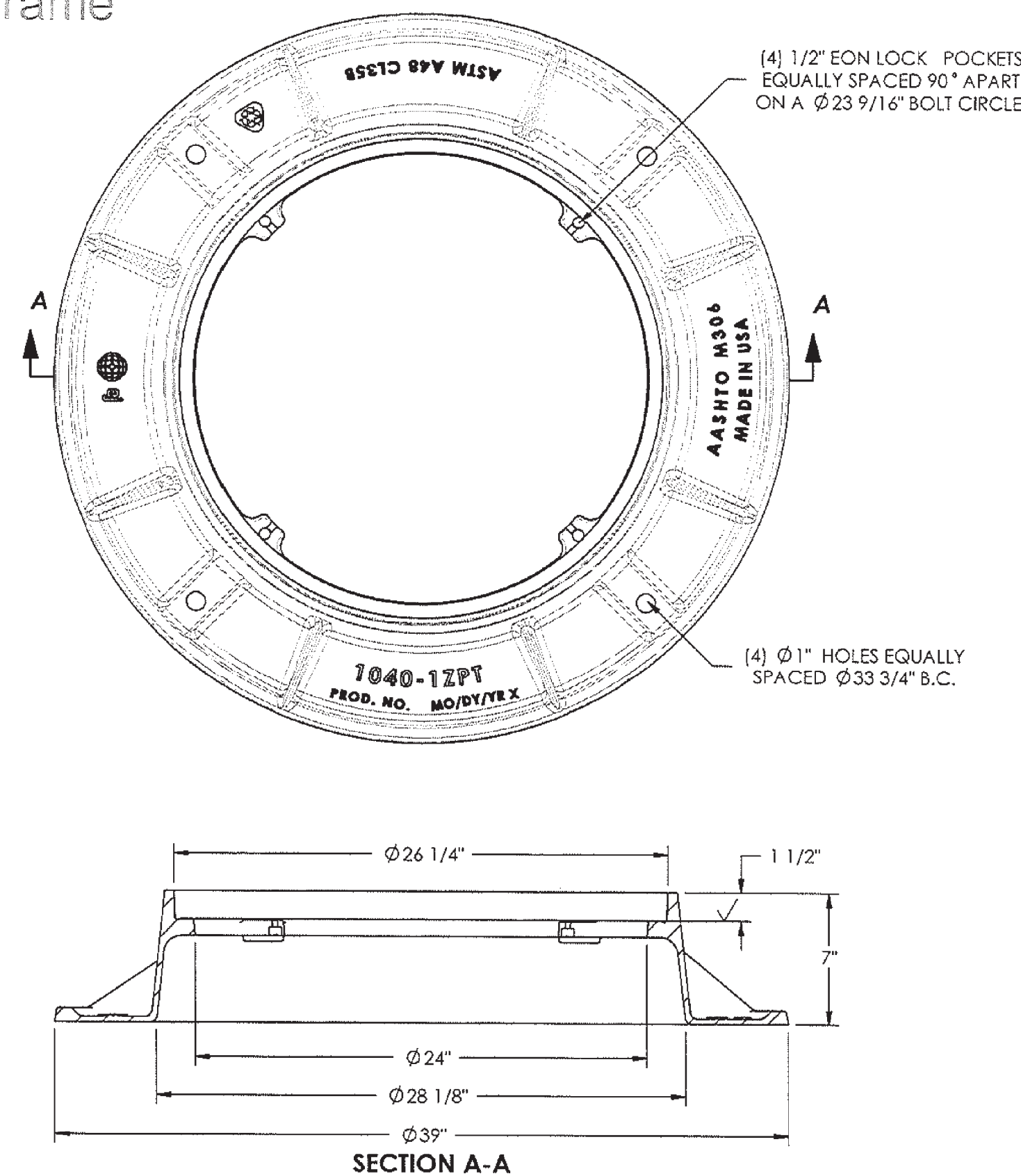
SANITARY SEWER NOTES
CONTINUED

- ALL STUBS SHALL HAVE A WATER TIGHT BULKHEAD.
- INFILTRATION FOR ANY SECTION OF SEWERS BETWEEN MANHOLES SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF SEWER PER 24 HOURS AND SHALL INCLUDE THE INFILTRATION FROM ALL MANHOLES AND OTHER APPURTENANCES.
- ALL SEWERS SHALL BE SUBJECTED TO AIR, INFILTRATION OR EXFILTRATION TESTS, OR A COMBINATION OF SAME, PRIOR TO ACCEPTANCE. ALL SEWERS OVER 24-INCH DIAMETER SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24-INCH DIAMETER OR SMALLER, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS OVER SEVEN FEET, SHALL BE SUBJECTED TO INFILTRATION TESTS. ALL SEWERS OF 24-INCH DIAMETER OR LESS, WHERE THE GROUND WATER LEVEL ABOVE THE TOP OF THE SEWER IS SEVEN FEET OR LESS, SHALL BE SUBJECTED TO AIR TESTS OR EXFILTRATION TESTS.
- THE PROCEDURE FOR AIR TESTING OF SEWERS SHALL BE IN ACCORDANCE WITH ASTM C828, ASTM C924, OR ASTM F1417 AS APPLICABLE.
- NINE POINT MANDREL TEST IS REQUIRED FOR ALL FLEXIBLE PIPES AND MAY NOT BE PERFORMED UNTIL 30 DAYS AFTER INSTALLATION.
- IF A SEWER FAILS TO PASS ANY OF THE PREVIOUSLY DESCRIBED TESTS, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF THE LEAKS, REPAIR THEM, AND RETEST THE SEWER. THE TEST SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED. TELEVISION INSPECTION SHALL BE CONSIDERED COMPLETED WHEN THE NECESSARY CONSTRUCTION REPAIRS HAVE BEEN MADE AND THE INSTALLATION RETELEVIEWED AND THE SYSTEM IS ACCEPTABLE FOR THE TESTING PHASE.
- THE CONTRACTOR SHALL PROVIDE FOR TELEVISION INSPECTION OF THE SANITARY SEWER LINES. ALL SANITARY LEADS FOR COMMERCIAL AND INDUSTRIAL SITES OVER 100 FEET IN LENGTH MUST BE AIR TESTED AND TELEVISION INSPECTION COMPLETED.
- ALL SEWER SHALL BE TELEVIEWED, WITH RESULTS APPROVED BY THE COMMUNITY PRIOR TO PLACING THE SEWER IN SERVICE. COPIES OF THE TELEVISION RECORDING (DVD FORMAT) NEED TO GO TO THE COMMUNITY AND THE ENGINEER PRIOR TO THE CONTRACTOR LEAVING THE SITE. THE TELEVISION INSPECTION MUST BE WITNESSED BY THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHOULD ARRANGE FOR, ENGAGE, AND PAY ALL EXPENSES INVOLVED FOR THE SERVICES OF A COMPETENT COMPANY TO PERFORM THIS TELEVISION INSPECTION.
- THE TELEVISION INSPECTION SHALL BE OBSERVED BY REPRESENTATIVES OF THE OWNER, ENGINEER, AND THE CONTRACTOR. ANY TELEVISION VIEWING PERFORMED IN THE ABSENCE OF THE ENGINEER WILL NOT BE CONSIDERED AS A PART OF THE FINAL INSPECTION.

SANITARY SEWER NOTES CONTINUED
CONTINUED

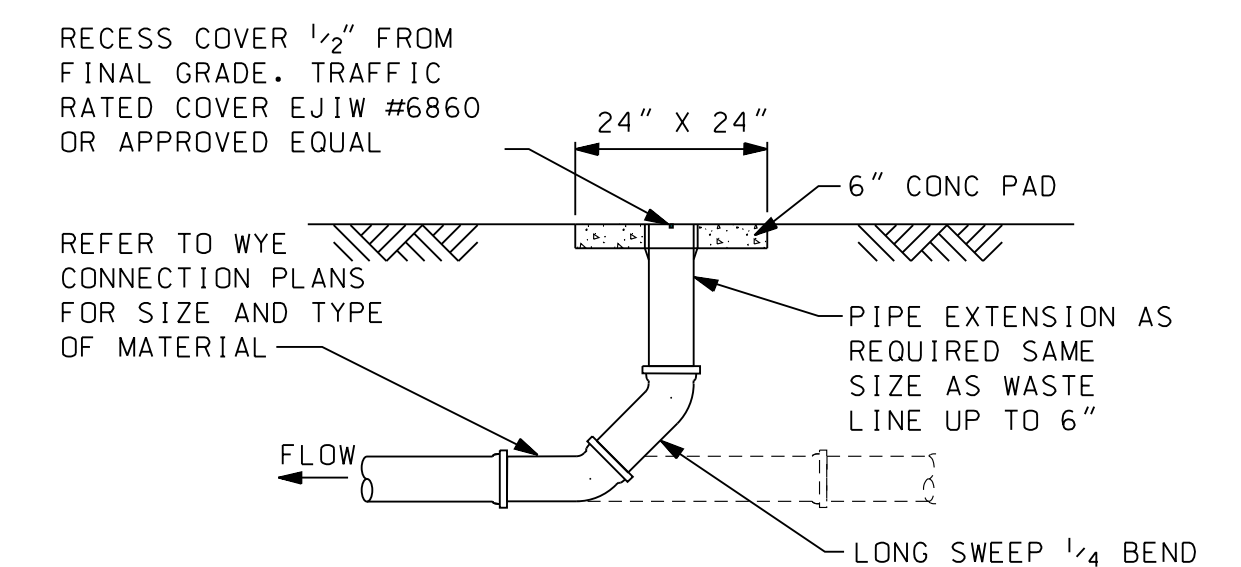
- THE INSPECTION SHALL INVOLVE THE VISUAL OBSERVATION BY CLOSED CIRCUIT TELEVISION OF ALL SANITARY SEWER INSTALLED AS PART OF THIS CONTRACT. THE INSPECTION SHALL BE PERFORMED AT A RATE OF SPEED WHICH WILL ALLOW EXAMINATION OF ALL POINTS OF INFILTRATION, CRACKED OR CRUSHED PIPE, DEFECTIVE JOINTS, MISALIGNMENT IN LINE OR GRADE, LOCATION OF ALL WYE OPENINGS AND ANY DEFECTS OR ITEMS OF POOR WORKMANSHIP WHICH MAY APPEAR. THE VIDEO SHALL INCLUDE CLEARLY AUDIBLE COMMENTARY FROM THE OPERATOR. THE VIDEO SHALL INCLUDE AN ODDMETER MEASURED TO THE NEAREST 0.1 FEET FROM THE MANHOLE. ANY ITEMS WHICH, IN THE OPINION OF THE ENGINEER, REQUIRE REPAIR SHALL BE PRECISELY LOCATED AND PHOTOGRAPHED ALONG WITH A DETAILED STATEMENT OF THE CONDITION. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO REPAIR ALL SUCH DEFECTS INCLUDING EXCESSIVE INFILTRATION AT ANY SPECIFIC LOCATION. EVEN THOUGH THE INFILTRATION LIMITS AS HEREIN SPECIFIED HAVE NOT BEEN EXCEEDED FOR THE ENTIRE LENGTH OF SEWER BEING INSPECTED, FOLLOWING COMPLETION OF THE REPAIR, THE ENGINEER AT THEIR DISCRETION, MAY REQUIRE A SECOND TELEVISION INSPECTION OF ANY REPAIRED AREAS. THE CONTRACTOR SHALL ARRANGE FOR AND PAY ALL COSTS INVOLVED IN PERFORMING THIS RE-INSPECTION.
- THERE SHALL BE NO DISCHARGE OF UNTREATED SANITARY SEWAGE TO THE SURFACE WATERS OF THE STATE DUE TO CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- CONTRACTOR SHALL NOTIFY WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, ENGINEERING DIVISION PERMIT OFFICE, 48 HOURS PRIOR TO START OF CONSTRUCTION AT (734) 595-6507, EXTENSION 2009.

1040 Frame

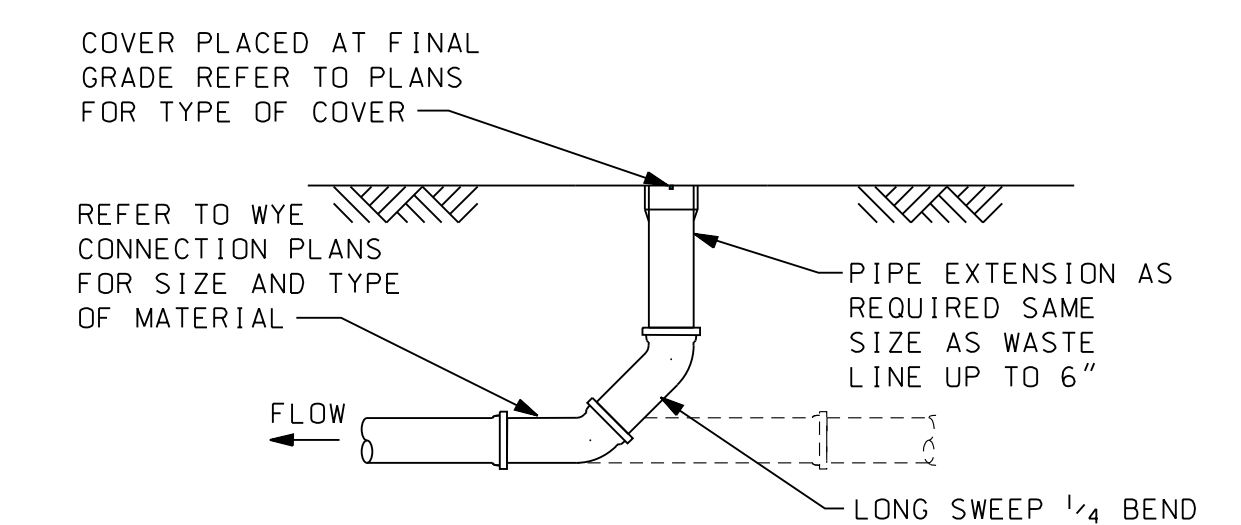


NOTE:
THIS DETAIL TO BE USED IN CONCRETE OR BITUMINOUS PAVED AREAS. ALL OTHER AREAS SHALL USE BOLT DOWN FRAMES WITH RUBBER O-RINGS AS SHOWN ON MANHOLE DETAILS.

EXTERNAL FRAME SEAL DETAIL
FOR PAVED AREAS ONLY



CLEAN - OUT
(LOCATED IN PAVED AREA)



CLEAN - OUT
(LOCATED IN GREENBELT AREA)

PROJECT MANAGER: FIELD BOOK INFORMATION: NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: 26251 Northline Rd, PO Box 10, Taylor, MI 48180, www.wadetrims.com

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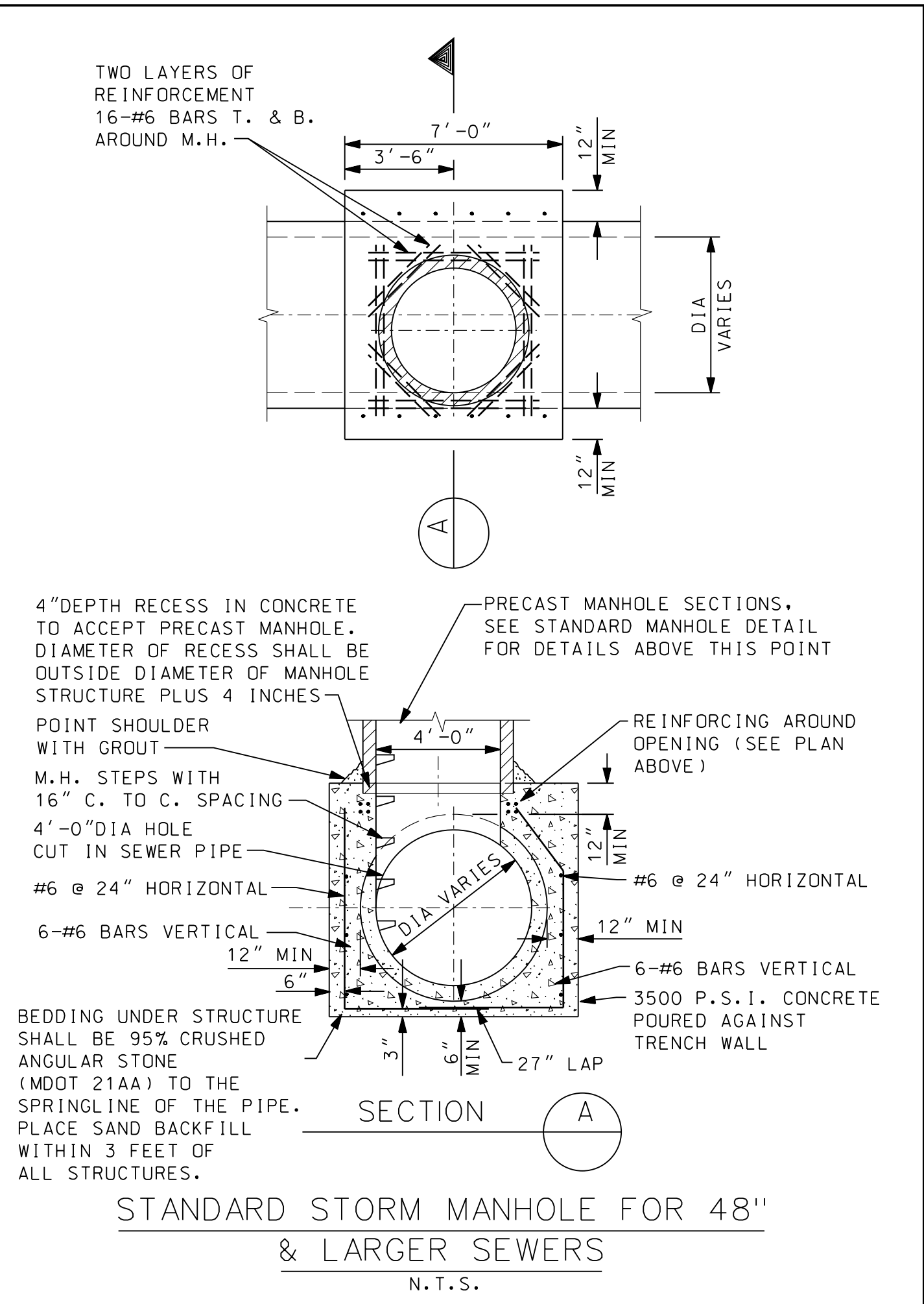
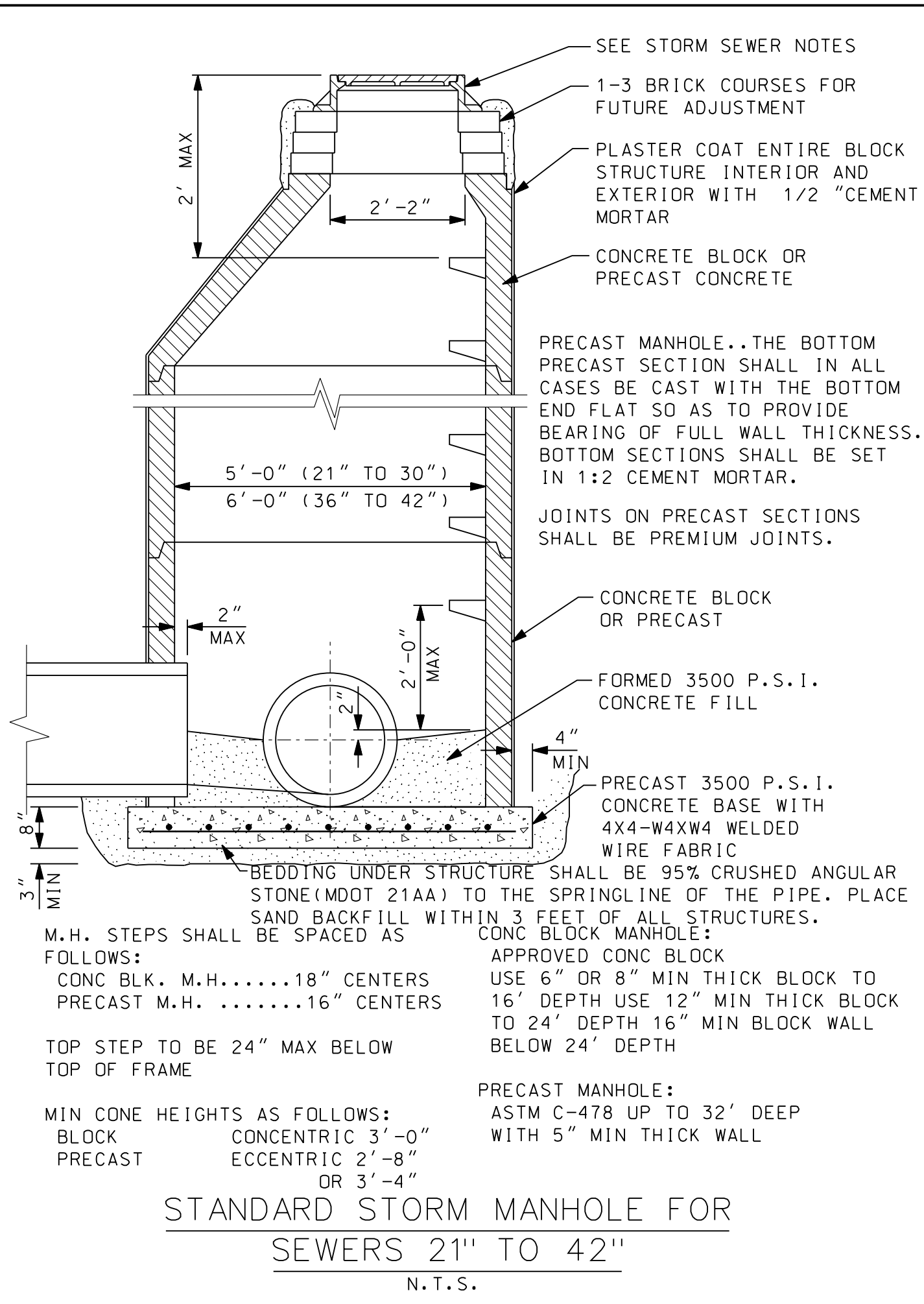
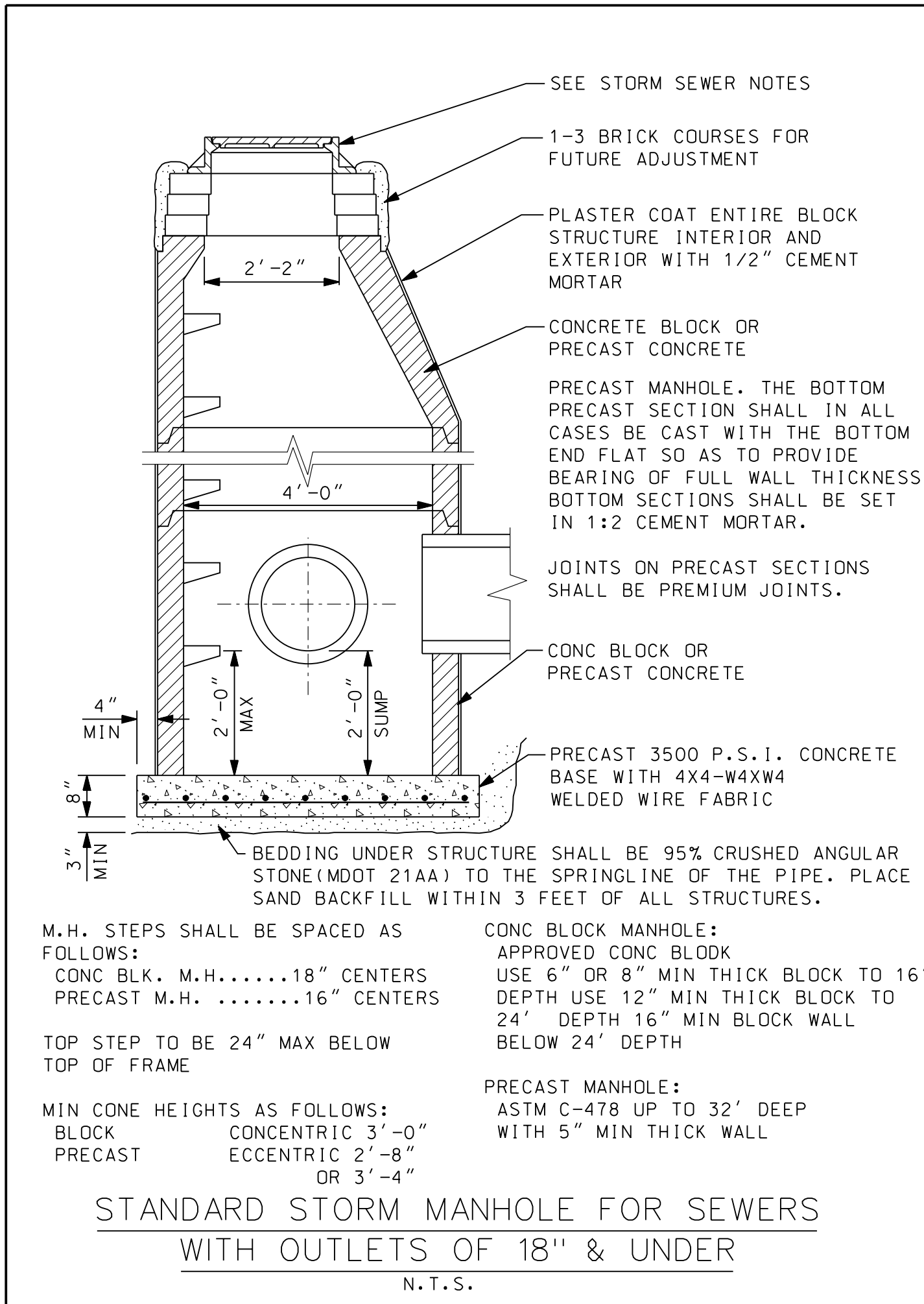
CITY OF TAYLOR
STANDARD SANITARY SEWER DETAILS (SS-2)

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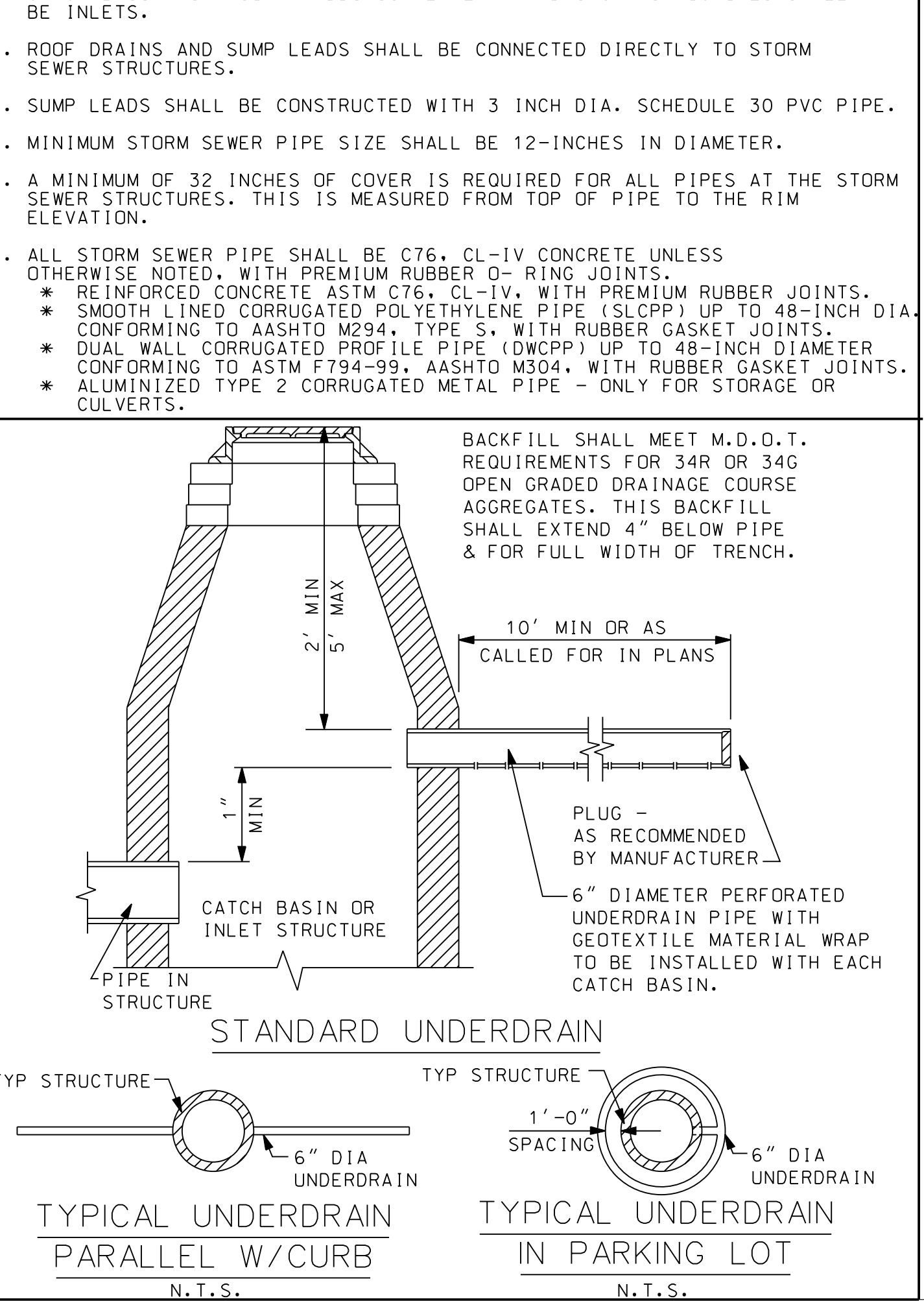
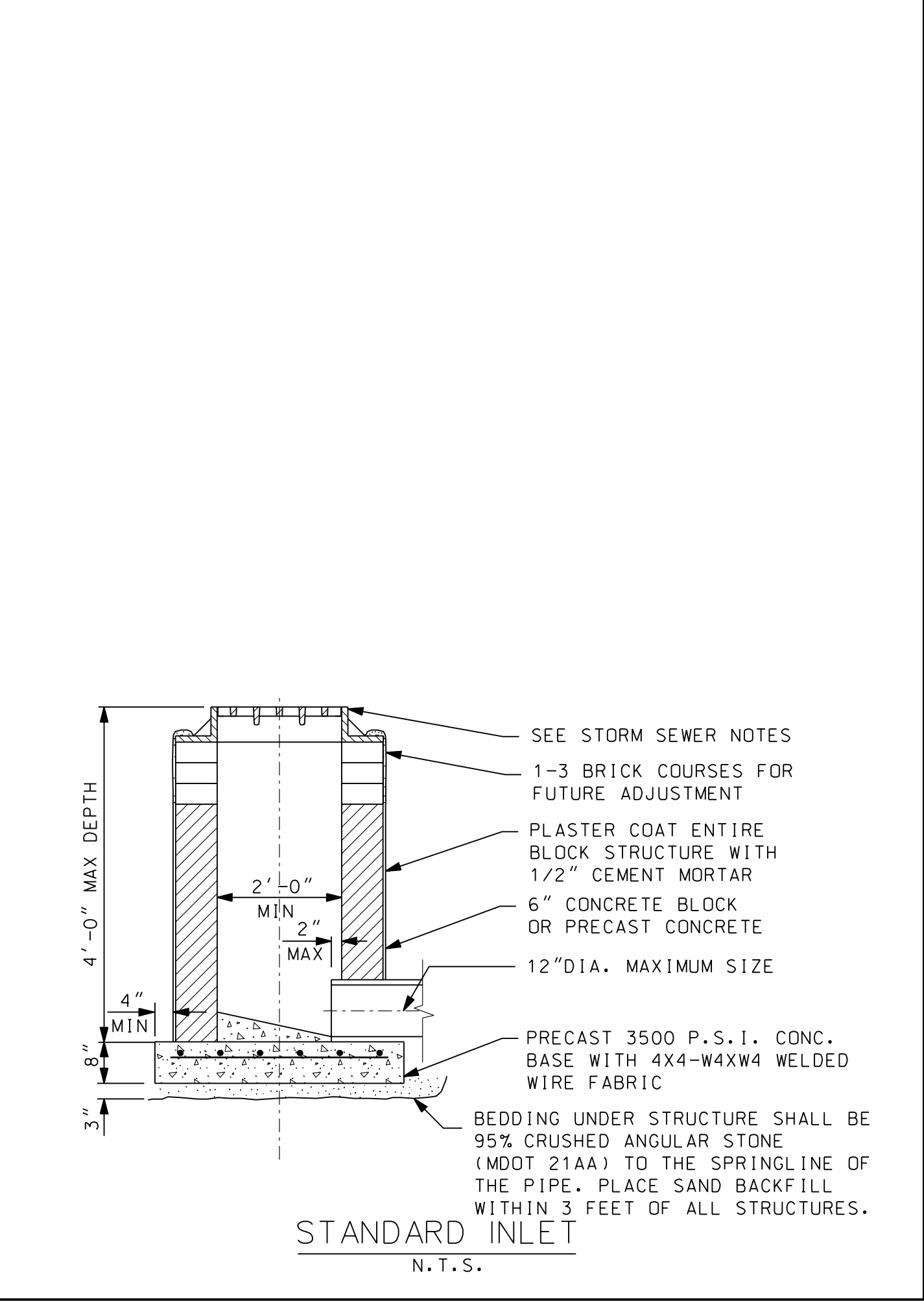
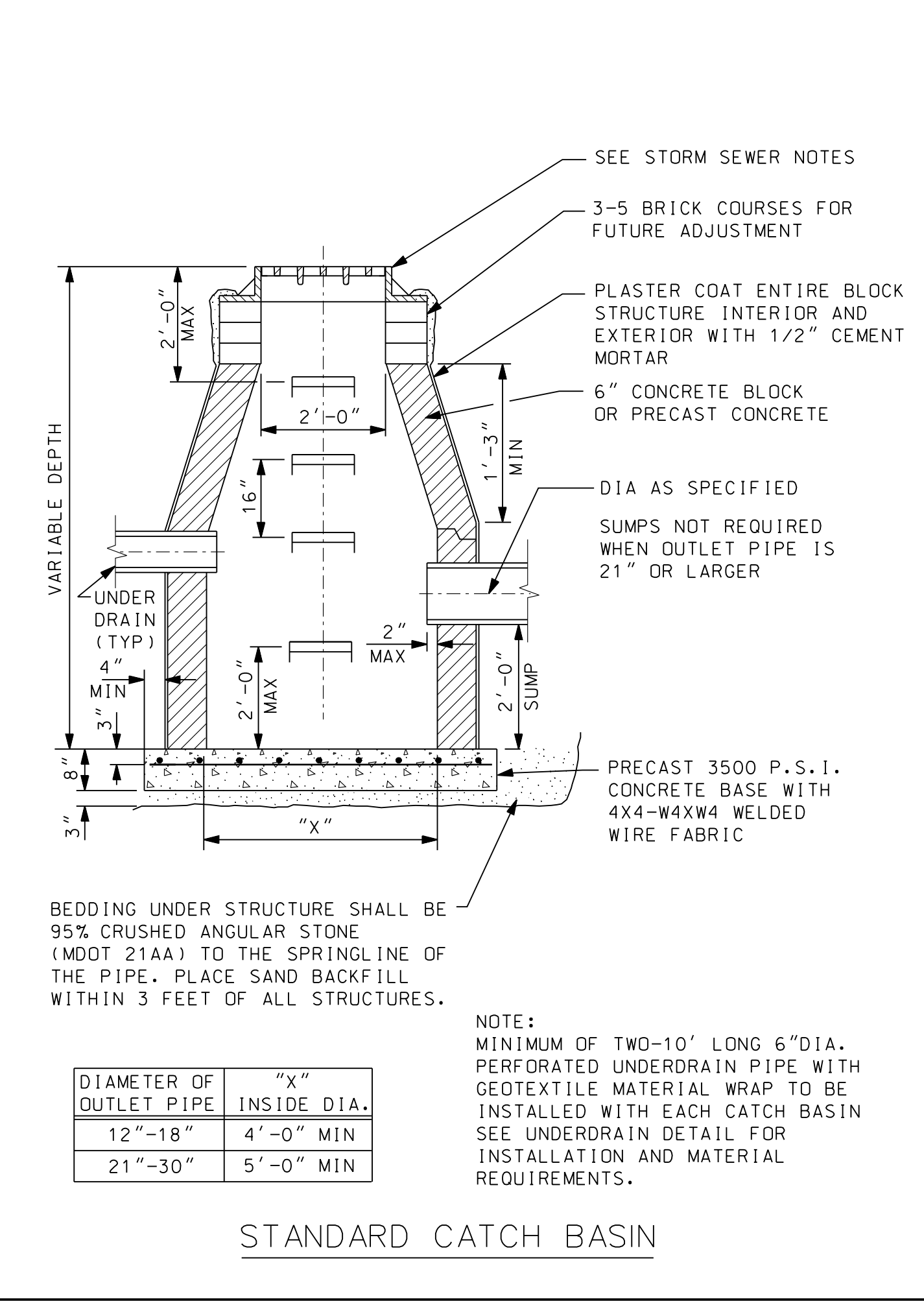
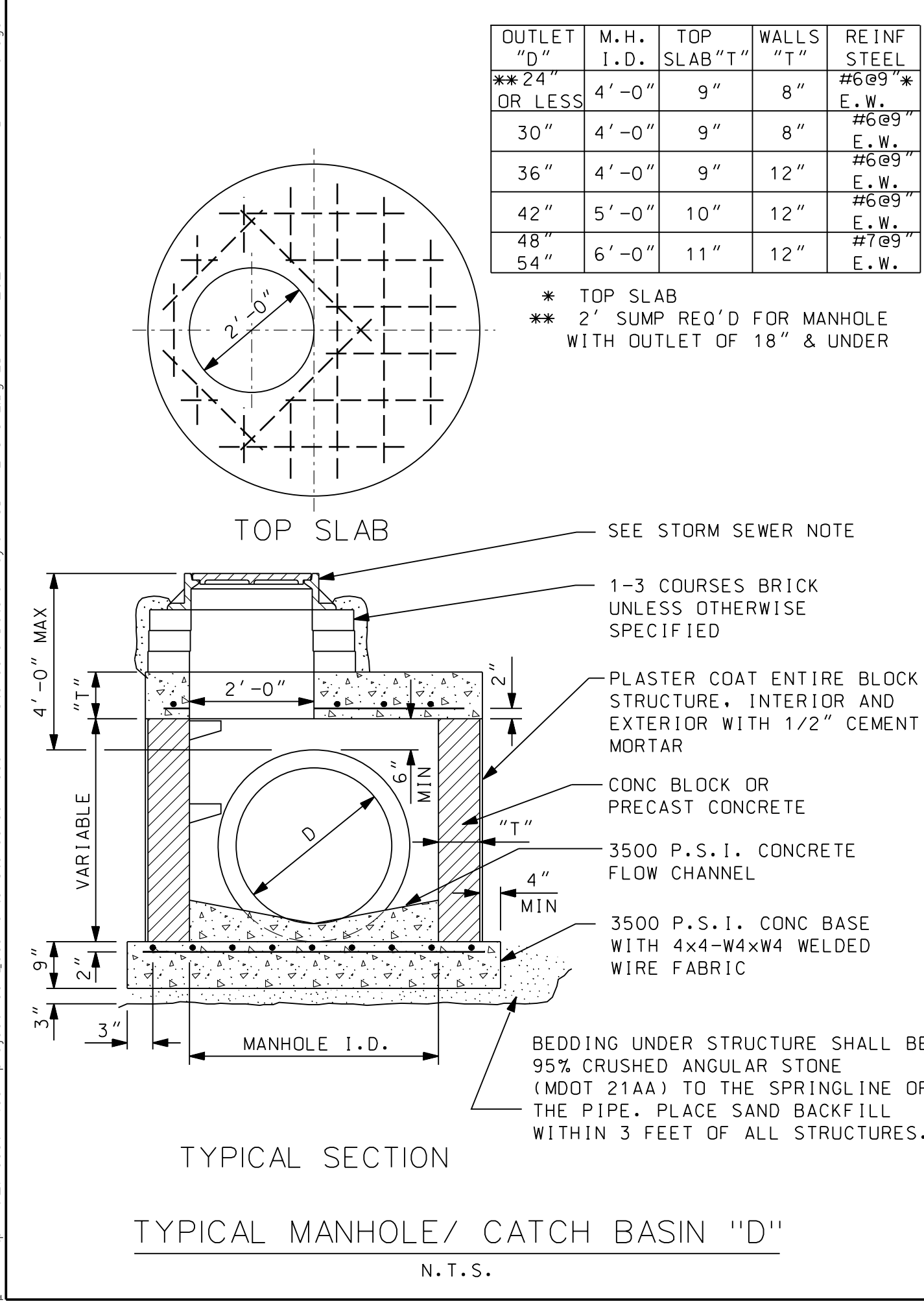
JOB NO.

SHEET
SS-2

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- ### STORM SEWER NOTES
- ALL STORM SEWER CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE AGENCY OR AGENCIES HAVING JURISDICTION OF THE STORM SEWER AND CONSTRUCTION AREA.
 - DETAILS ARE FOR STRUCTURES WITH NO MORE THAN TWO PIPES, 180° APART. LARGER DIAMETER STRUCTURES MAY BE REQUIRED FOR DIFFERENT CONFIGURATIONS.
 - ALL STRUCTURES REQUIRE A MINIMUM OF 8-INCHES OF WALL BETWEEN PIPE OPENINGS. LARGER DIAMETER STRUCTURES MAY BE REQUIRED WHERE PIPE ENTERING THE STRUCTURE ARE LESS THAN 90° APART IN ANY DIRECTION.
 - ALL CASTING RIMS SHALL BE SET TO GRADE OR AS SHOWN ON THE PLANS.
 - NO MANHOLES OR OTHER STRUCTURES MAY BE INSTALLED WITHIN DRIVEWAYS, DRIVE APPROACHES, OR SIDEWALKS.
 - ALL CATCH BASIN STORM PIPE SHALL BE 12-INCH DIAMETER C76, CL-IV CONCRETE UNLESS OTHERWISE NOTED.
 - MANHOLE STEPS TO BE GRAY IRON OR STEEL REINFORCED POLYPROPYLENE ASTM 2146, TYPE 11, GRADE 49108.
 - CATCH BASIN AND INLET FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:
 - WHEN LOCATED IN PAVEMENT GUTTER LINE, FRAME AND COVER SHALL BE EJ 5000Z4, WITH 5000M4 GRATE.
 - WHEN LOCATED IN PAVED AREAS OTHER THAN GUTTER LINE, FRAME SHALL BE EJ 1040-12PT AND COVER 1040AGS (STORM) WITH CITY LOGO.
 - WHEN LOCATED IN YARD AREAS, FRAMES SHALL BE EJ 1040 WITH TYPE "N" OR "M1" COVER, OR EQUIV.
 - DIFFERENTIAL OF EXCAVATION AROUND EXISTING MANHOLES SHALL NOT EXCEED SIX FEET.
 - PLACE SAND BACKFILL WITHIN THREE FEET OF ALL STRUCTURES.
 - ALL RIGID STORM SEWER PIPE SHALL HAVE CLASS "R-B" BEDDING, ALL FLEXIBLE PIPE SHALL BE CLASS "F-1" BEDDING, UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET M01 FOR BEDDING DETAILS.
 - ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
 - ALL DRAINAGE STRUCTURES LOCATED WITHIN PAVEMENT MUST HAVE UNDER DRAIN AS SHOWN ON THIS SHEET.



PROJECT MANAGER: [Name] FIELD BOOK INFORMATION: [Name] CITY OF TAYLOR STANDARD STORM SEWER DETAILS (ST-1)
 PREPARED BY: [Name] DATE: [Date]

NO.	DATE	DESCRIPTION	BY

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26251 Northline Rd.
PO Box 10
Taylor, MI 48180
www.wadefirm.com

CITY OF TAYLOR
STANDARD STORM SEWER DETAILS (ST-1)

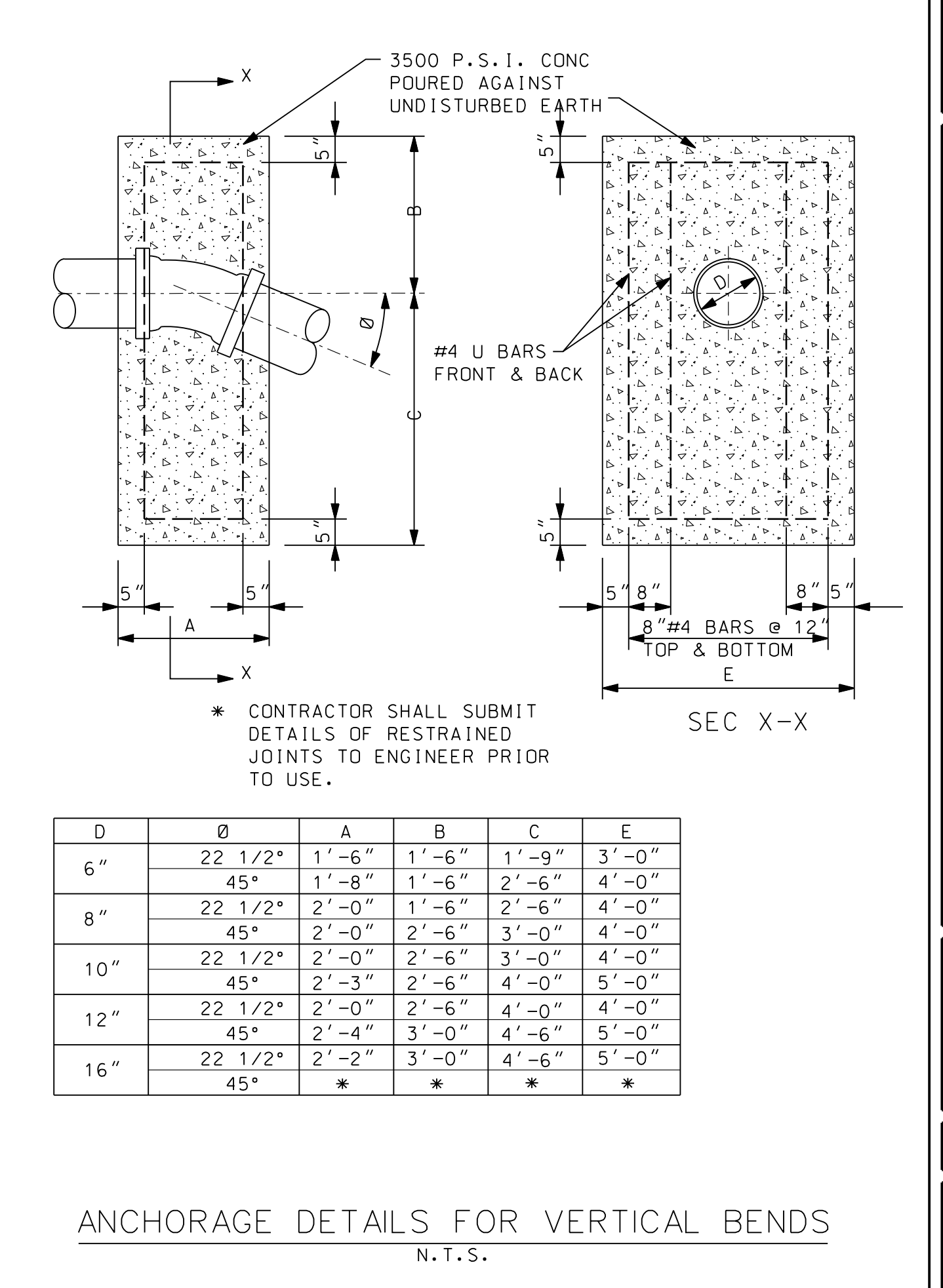
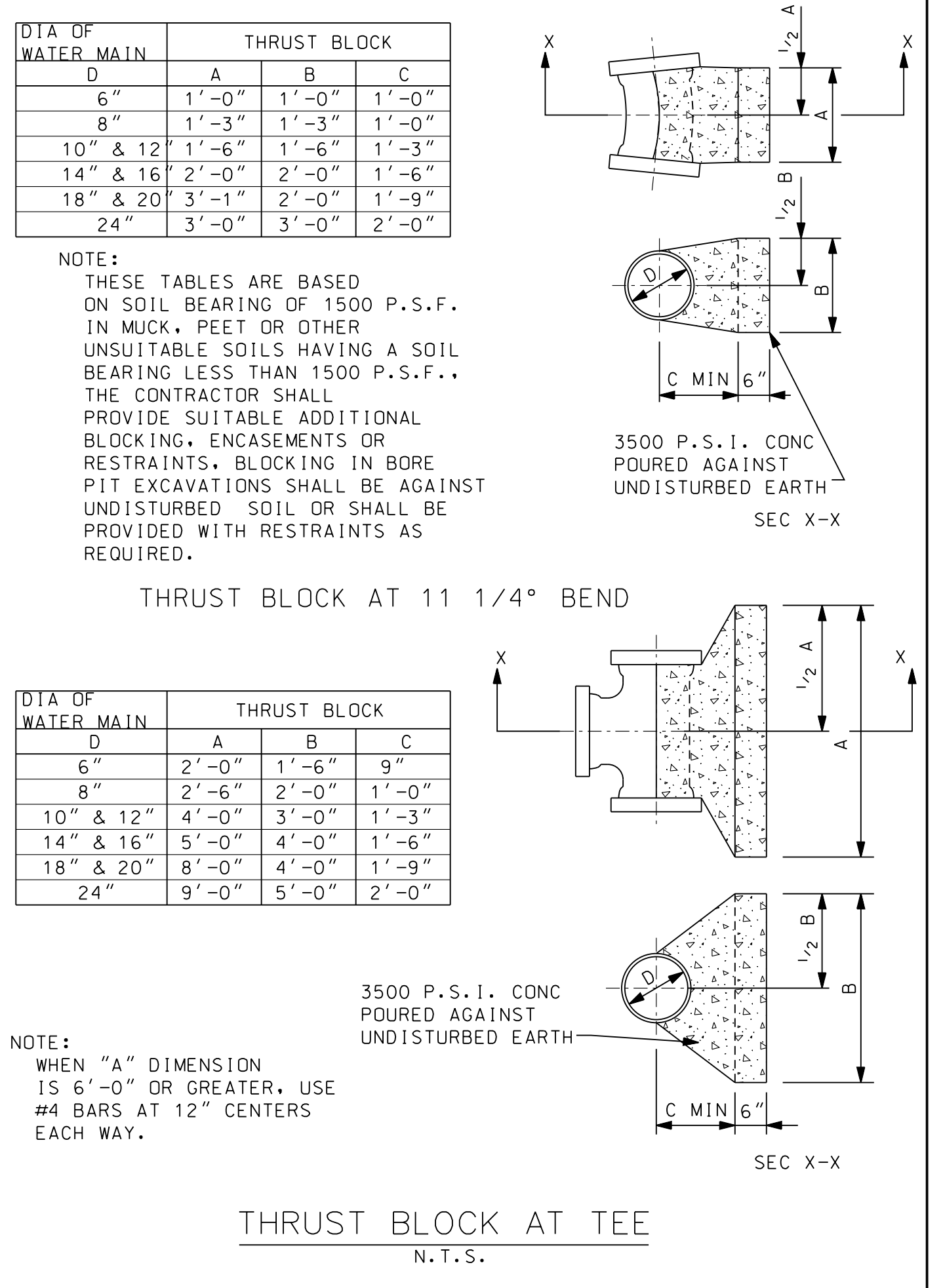
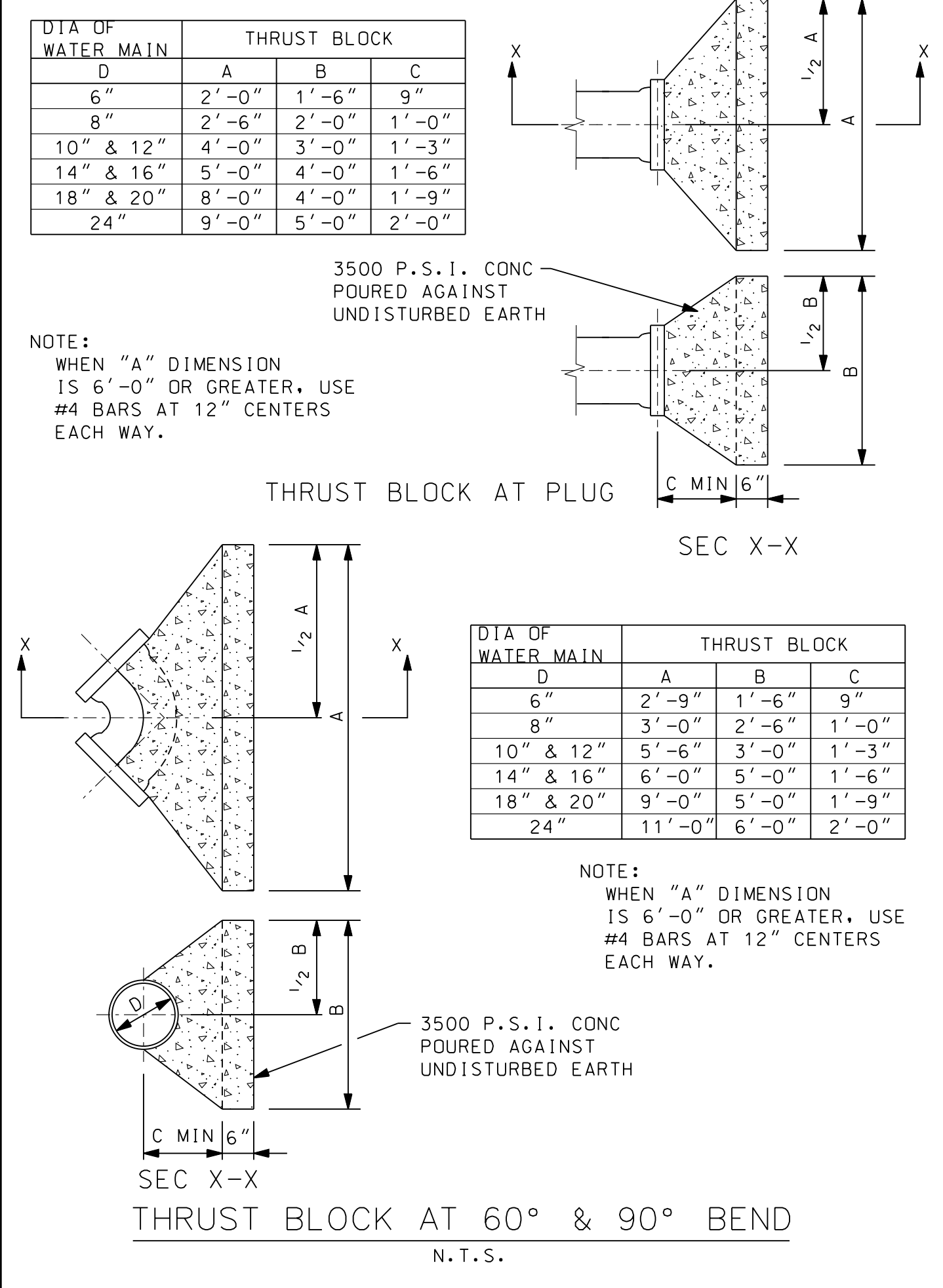
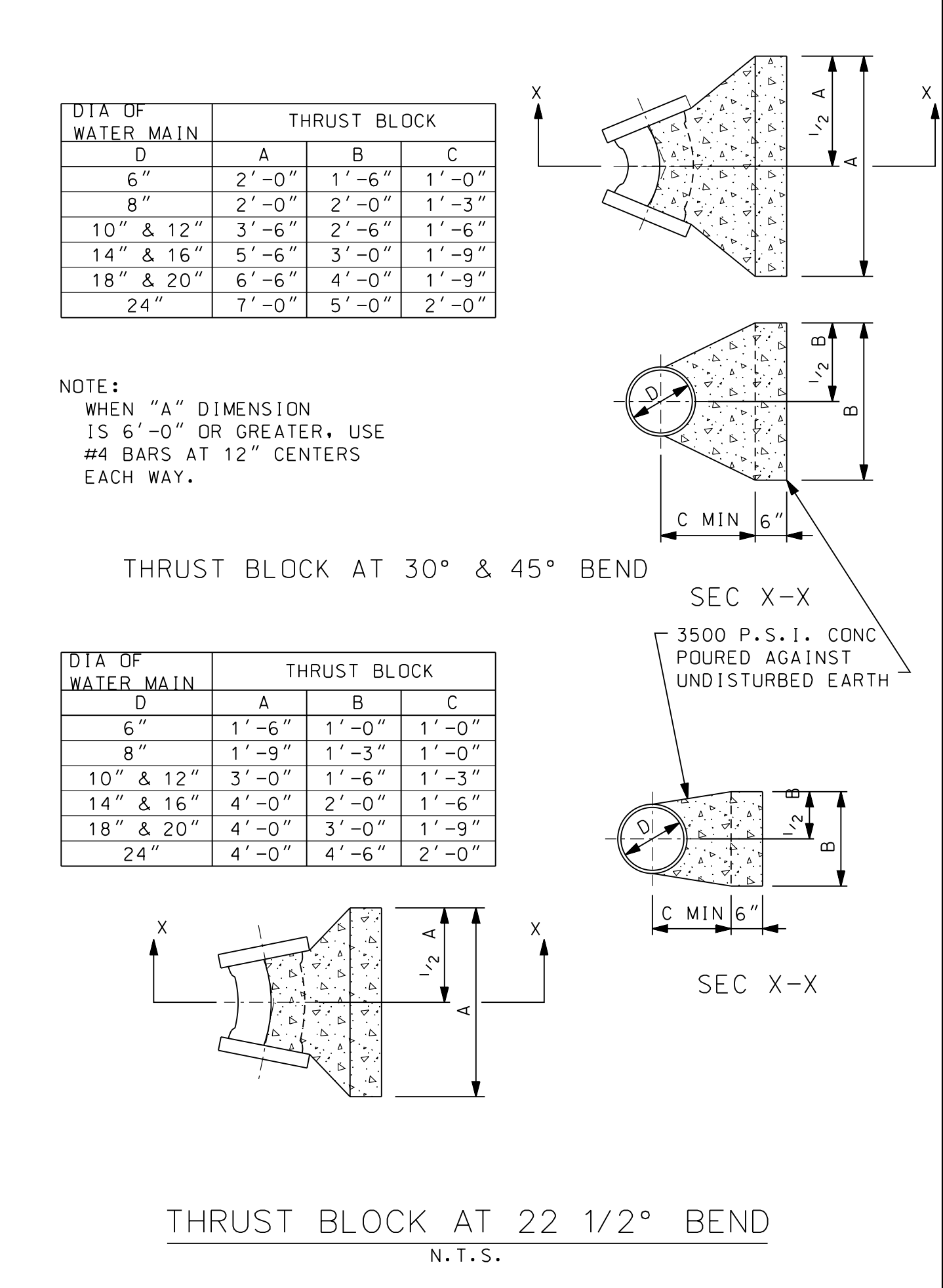
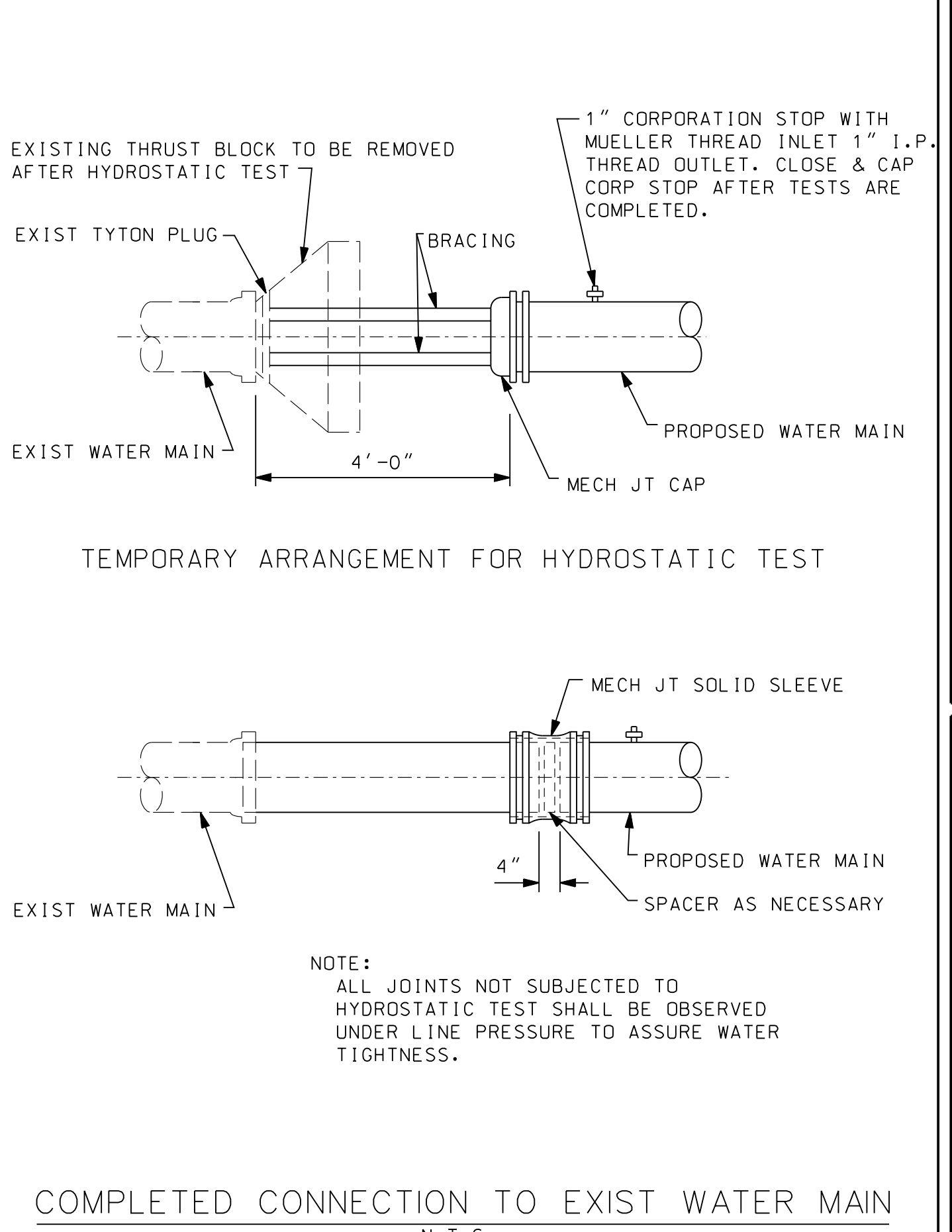
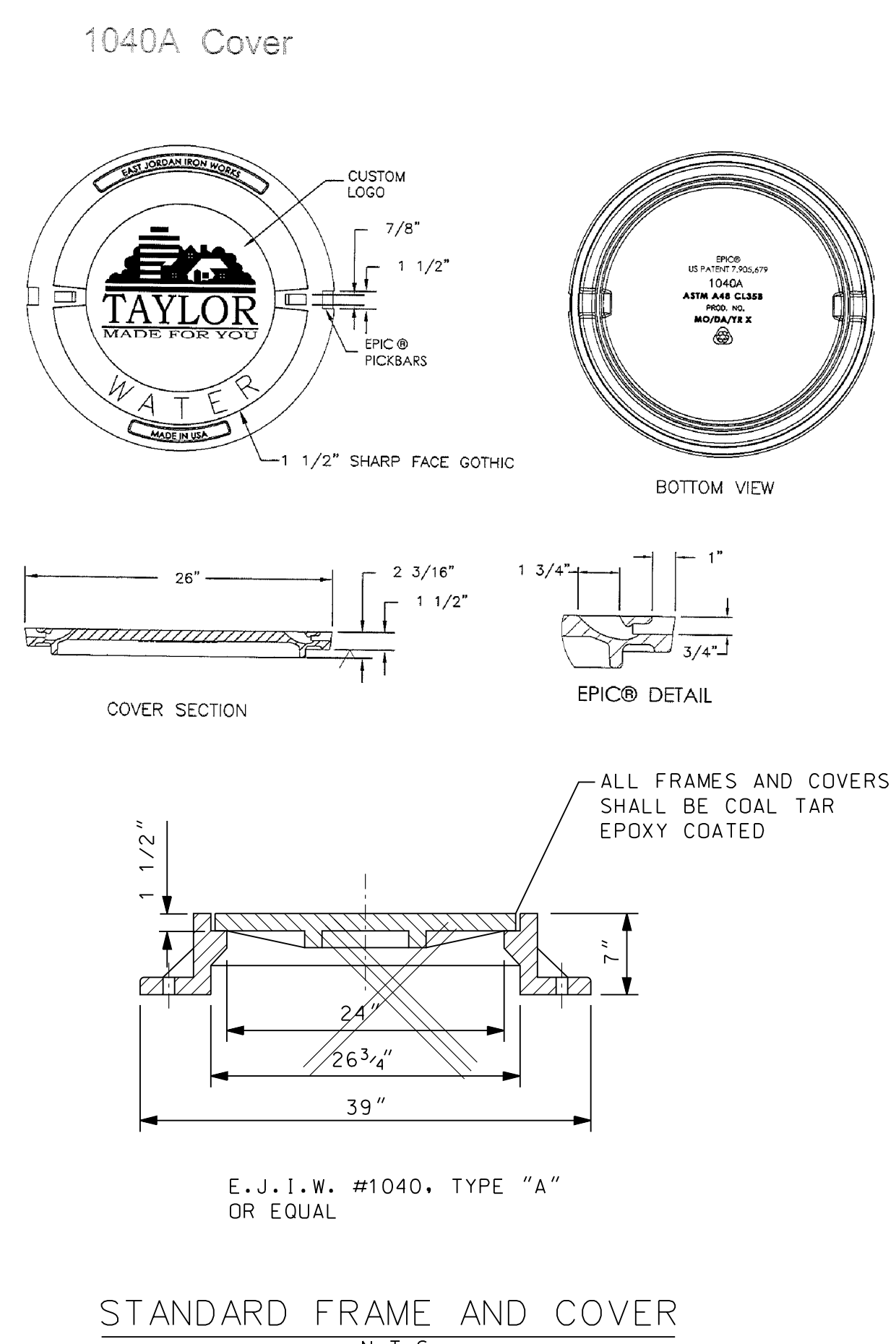
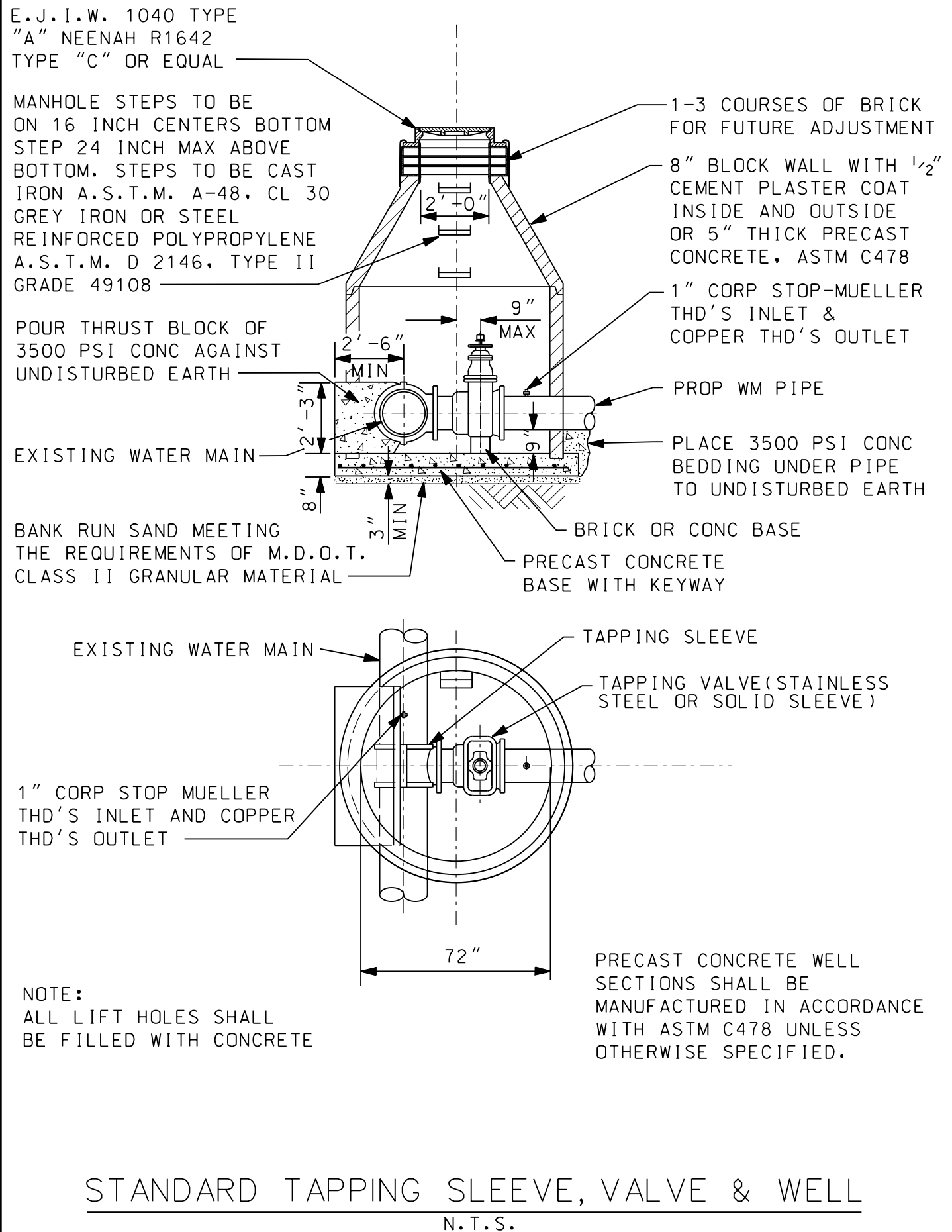
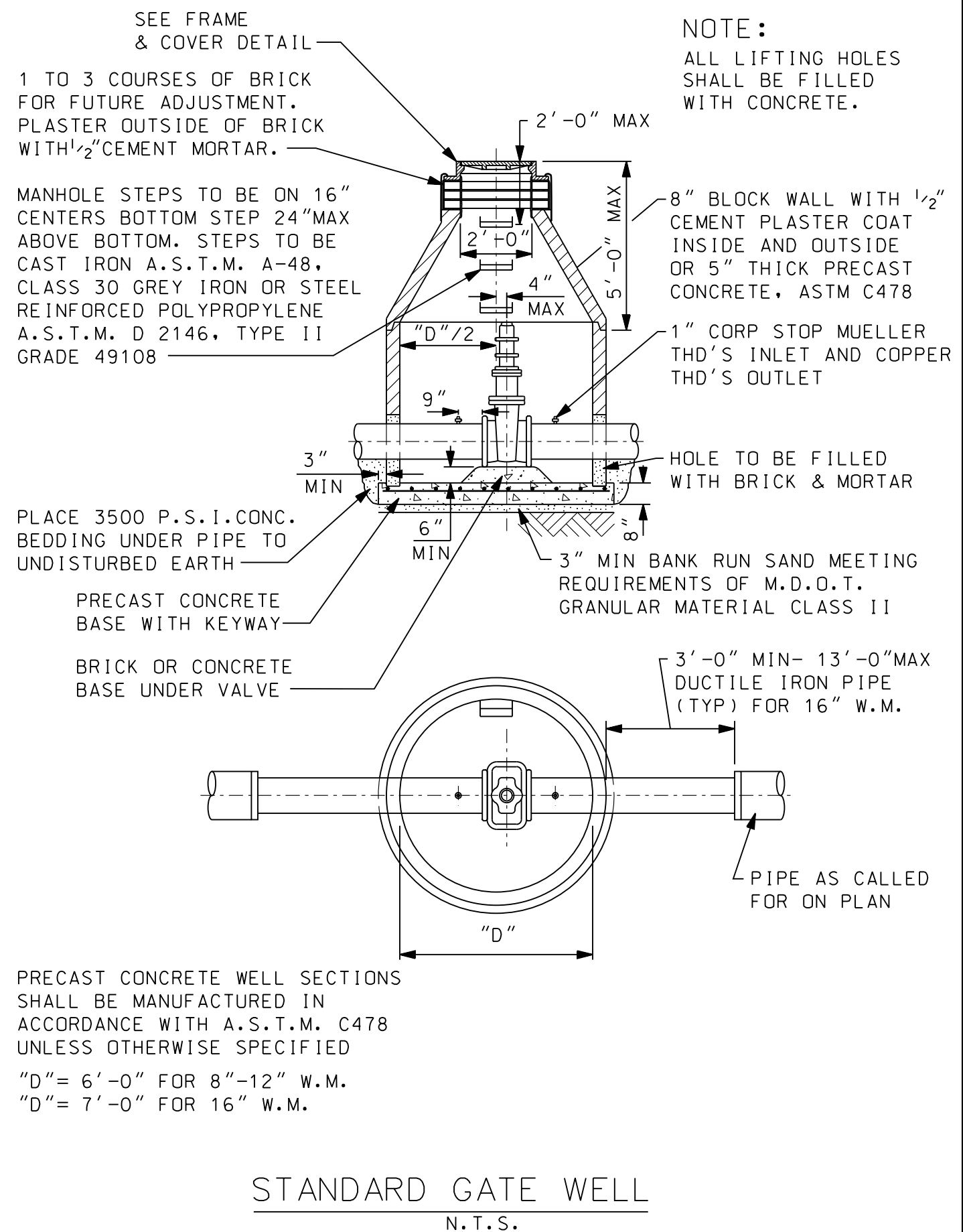
ISSUED FOR: [Name] DATE: [Date] BY: [Name]

JOB NO. [Number]

SHEET [Number] OF [Total]

ST-1

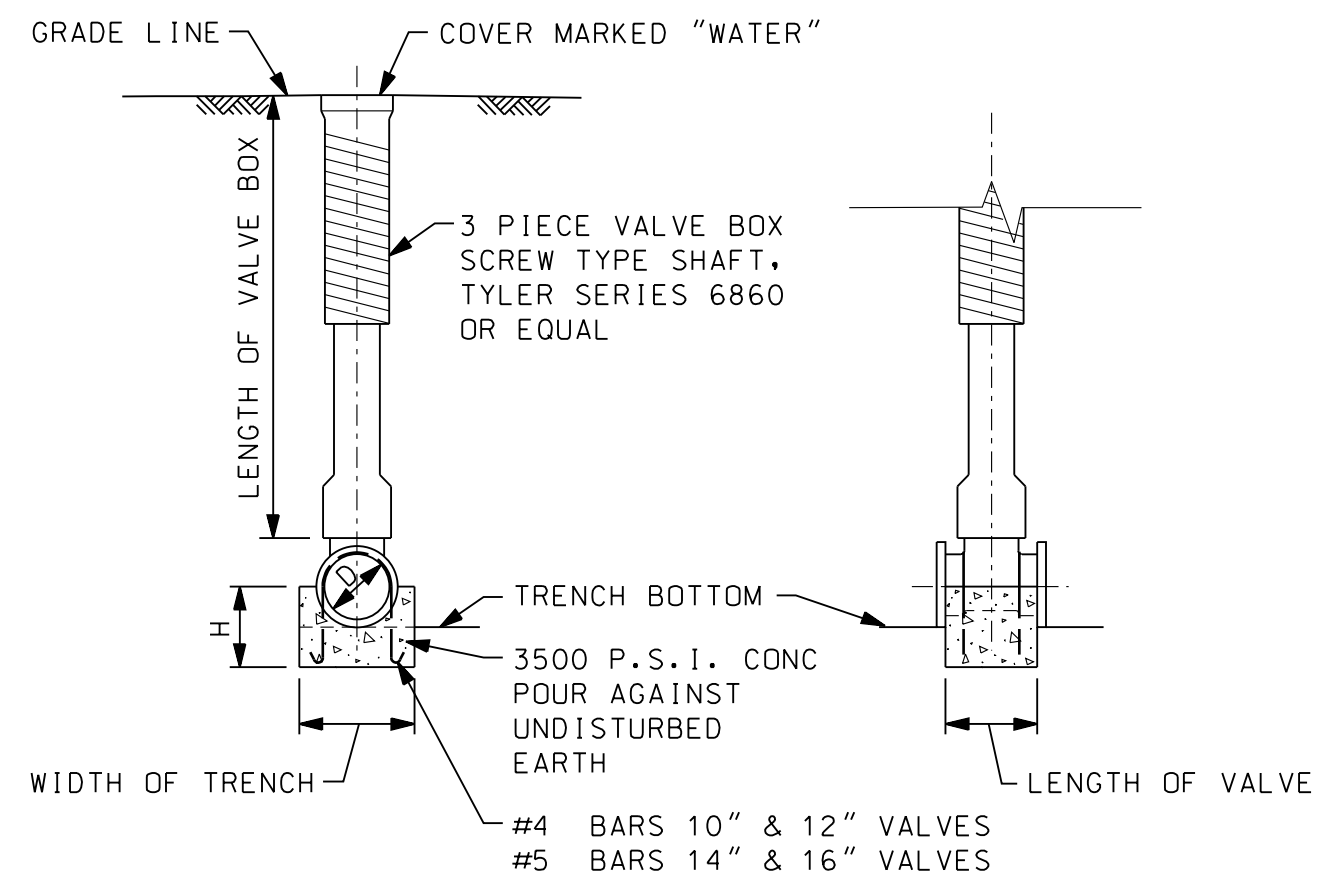
STANDARD STORM SEWER DETAILS



PROJECT MANAGER: [Name] | FIELD BOOK INFORMATION: [Name] | STANDARD WATER MAIN DETAILS (WM-1) | CITY OF TAYLOR

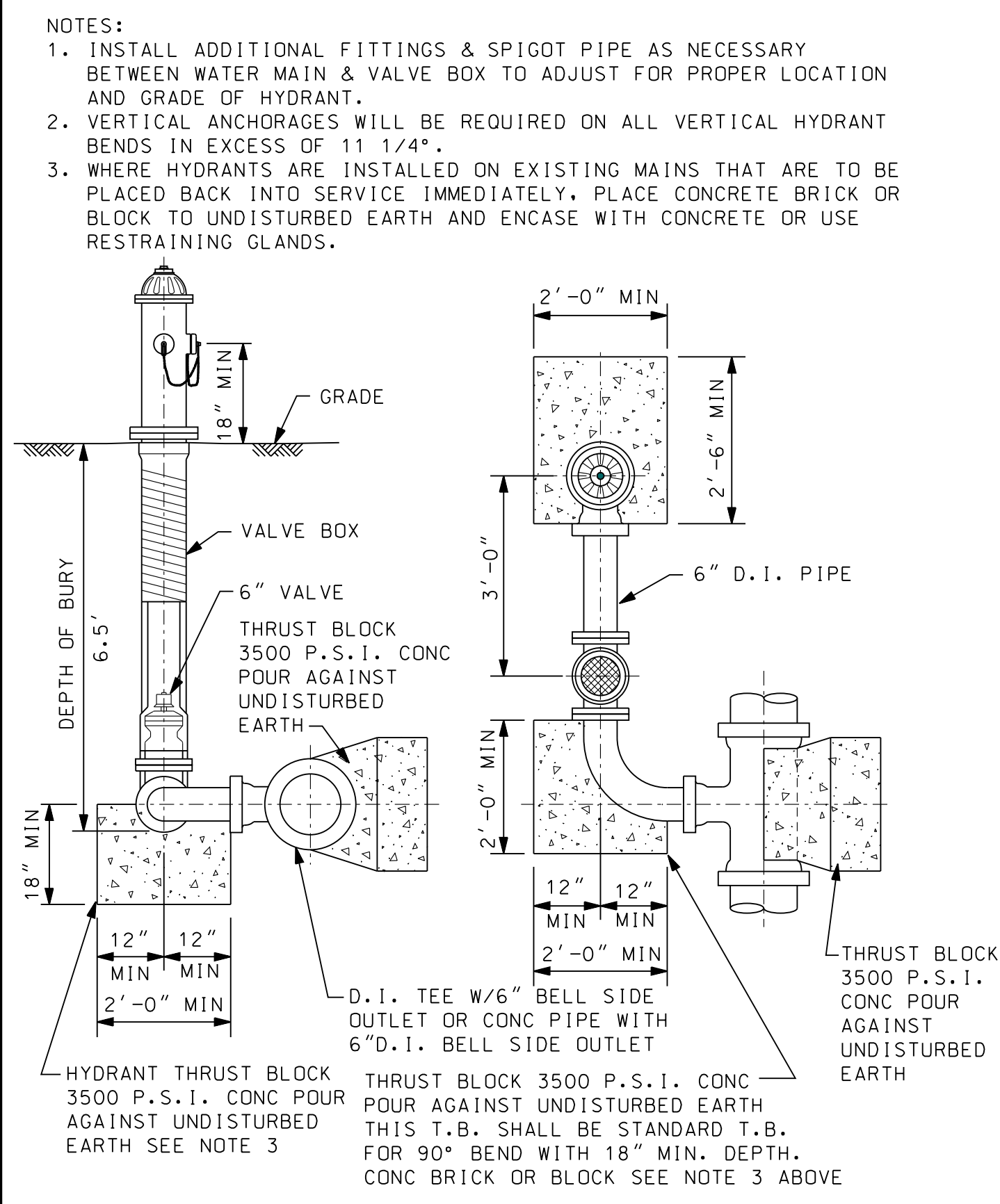
NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: [Signature] | WADE TRIM | CITY OF TAYLOR | STANDARD WATER MAIN DETAILS (WM-1) | ISSUE FOR: [Name] DATE: [Date] BY: [Name] | JOB NO. [Number] | SHEET WM-1 | www.wadefirm.com

PROJECT MANAGER: m/maison
 FIELD BOOK INFORMATION: 3/11/2021 3:44:15 PM BY: m/maison
 PROJECT: 20251 Nepheline Rd. PO Box 10 Taylor, MI 48180 www.wadetrims.com

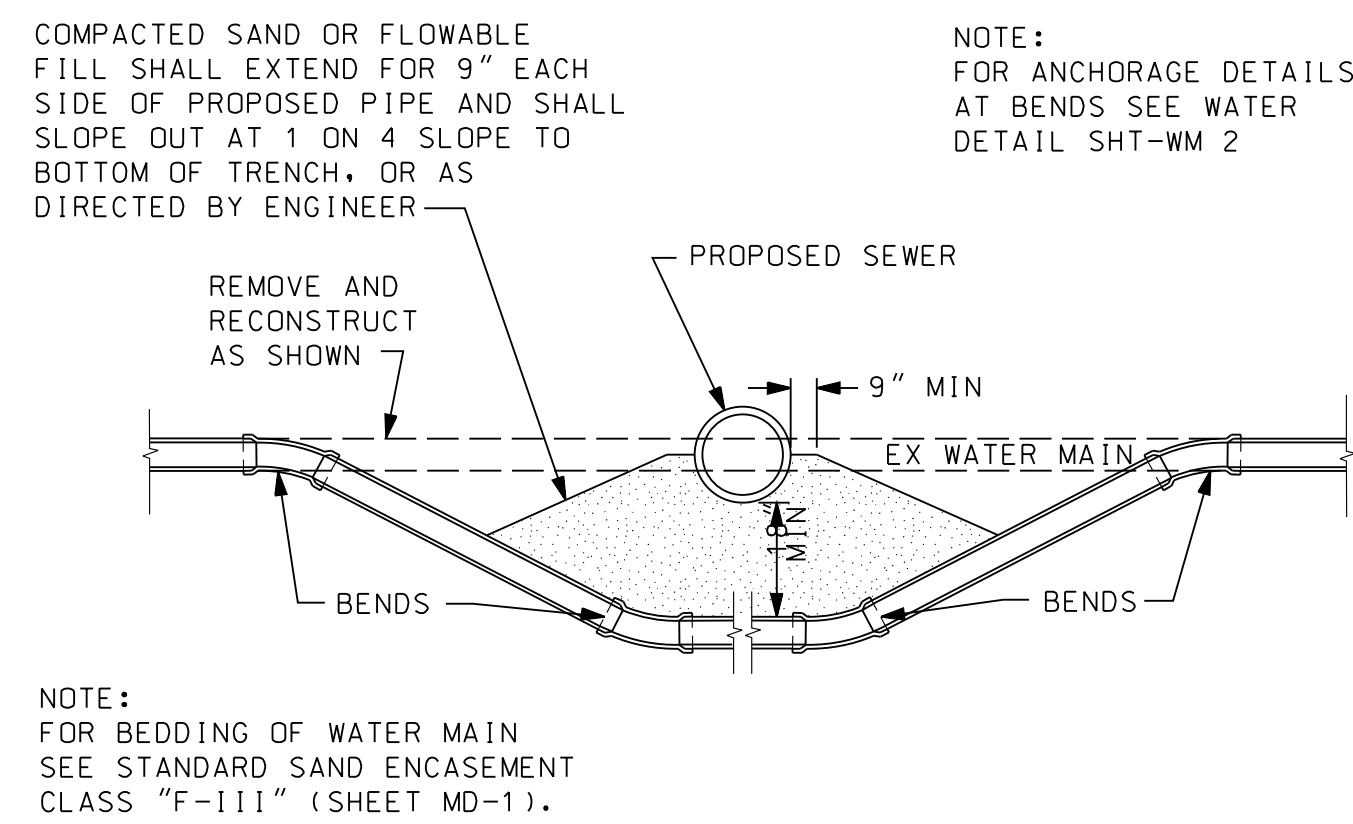


SIZE OF PIPE	H
6"	6"
8"	8"
10"	10"
12"	12"

VALVE BLOCK AND BOX DETAIL
N.T.S.

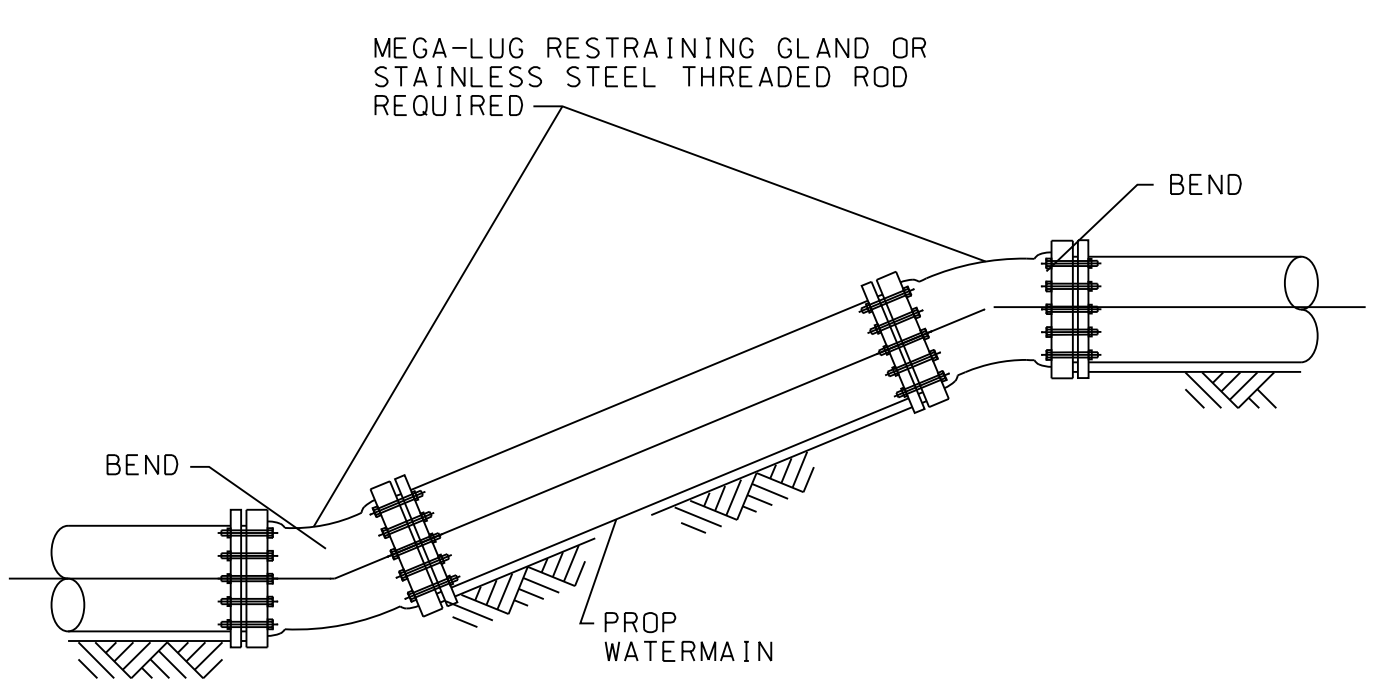


STANDARD FIRE HYDRANT ASSEMBLY
CLOSE COUPLE TYPE
N.T.S.

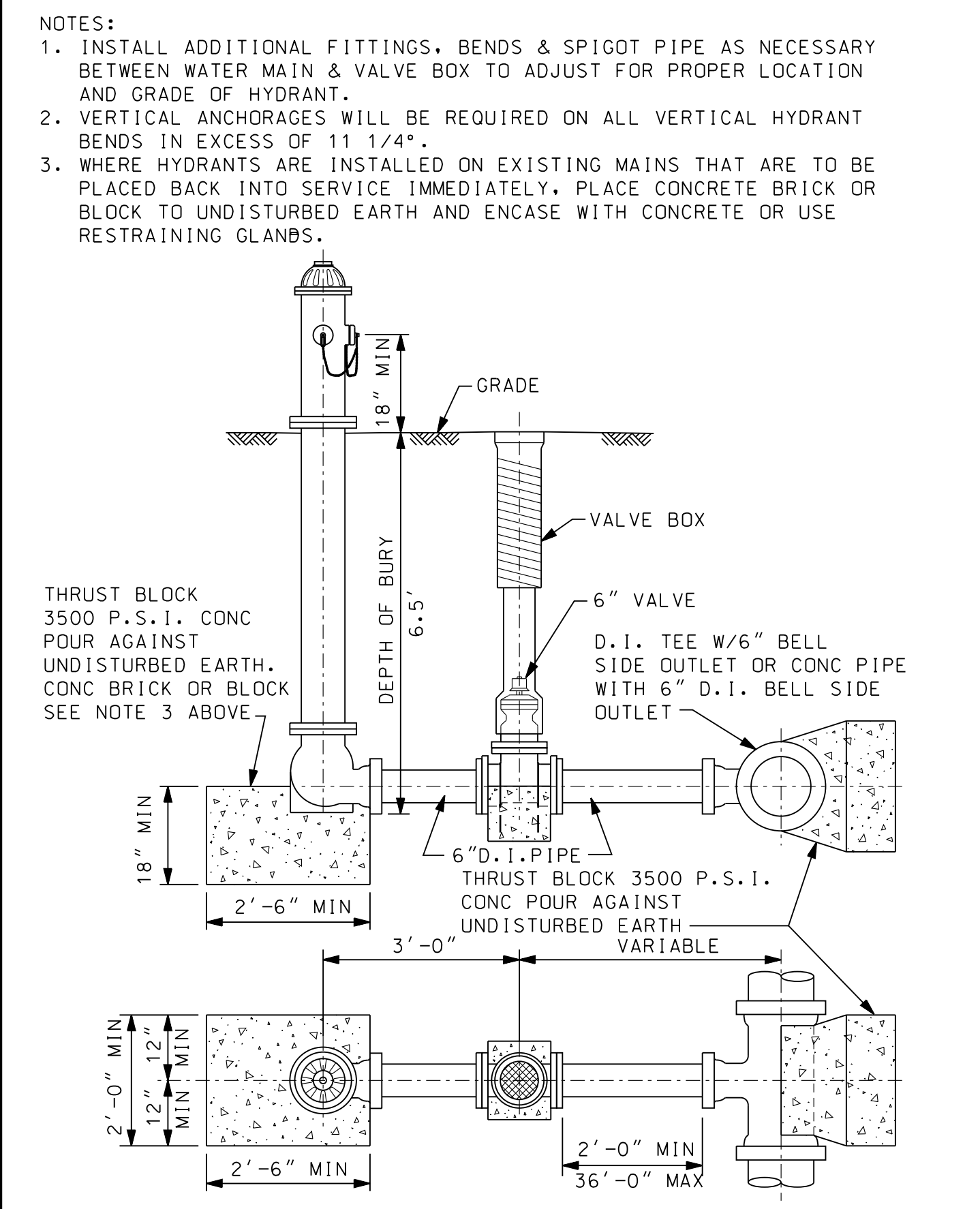


RELOCATION OF WATER MAIN
N.T.S.

- ### WATER MAIN NOTES
- ALL WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND GENERAL SPECIFICATION OF THE AGENCY OR AGENCIES HAVING JURISDICTION OF THE WATER SUPPLY SYSTEM AND CONSTRUCTION AREA.
 - WATER MAINS SHALL NOT BE CONSTRUCTED UNDER SIDEWALKS OR ROAD PAVEMENT AREAS.
 - ALL SURFACE STRUCTURES, SUCH AS HYDRANTS, GATE WELLS AND VALVE BOXES SHALL BE SET TO GRADE OR AS INDICATED ON THE PLANS.
 - FIRE HYDRANTS ARE TO BE INSTALLED PLUMB AND HAVE THEIR NOZZLES AS DETERMINED BY THE ENGINEER.
 - ALL FITTINGS SHALL BE DUCTILE IRON, PRESSURE RATING 350 P.S.I., CONFORMING TO ANSI/AWWA C 153/A21.53 COMPACT FITTINGS WITH DOUBLE THICKNESS CEMENT MORTAR LINING AND BITUMINOUS ENAMEL COATING INSIDE AND OUTSIDE.
 - GATE WELLS AND OTHER WATER MAIN STRUCTURES SHALL NOT BE CONSTRUCTED IN DRIVEWAYS, DRIVE APPROACHES, OR SIDEWALKS.
 - PROVIDE 7-FOOT MINIMUM COVER BELOW EXISTING PAVEMENT CENTERLINE OR GROUND AT WATER MAIN LOCATION, WHICHEVER IS LOWEST, WHEN PROPOSED WATER MAIN IS WITHIN 32 FEET OF CENTERLINE ON SECTION LINE ROADS, OR WITHIN 19 FEET OF CENTERLINE ON 1/4 LINE ROADS. SEVEN FEET COVER SHALL ALSO BE REQUIRED AT OTHER LOCATIONS AS NOTED ON THE PLAN. PROVIDE 6-FOOT MINIMUM COVER BELOW EXISTING ROAD CENTERLINE OR GROUND AT WATER MAIN LOCATION, WHICHEVER IS LOWEST, AT ALL OTHER LOCATIONS UNLESS OTHERWISE NOTED.
 - PLACE NATURAL BANK RUN SAND BACKFILL WITHIN THREE FEET OF ALL STRUCTURES, INCLUDING VALVE WELLS, FIRE HYDRANTS, ETC.
 - ALL WATER MAIN PIPE SHALL HAVE CLASS F-III BEDDING UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET MD-1 FOR BEDDING DETAILS.
 - ALL PRECAST PRODUCTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
 - CONTRACTOR SHALL BAG ALL NEW FIRE HYDRANTS UNTIL THE WATER MAIN IS ACCEPTED FOR SERVICE.
 - WHEN THE FIRE HYDRANT IS BEING INSTALLED, THE 6-INCH DIAMETER FIRE HYDRANT VALVE SHALL BE INSTALLED IN THE FULL OPEN POSITION.
 - WATER MAIN TO BE PLACED LEVEL THROUGH ALL GATE WELLS.
 - ALL WATER SYSTEM BOLTS ARE TO BE NEW COR-BLUE, OR OTHER APPROVED COR-10 STEEL MASTIC COATED T-BOLTS.
 - A FIRE HYDRANT SHOULD BE PLACED AT THE END OF ALL DEAD END WATER MAIN.



VERTICAL REACTION BLOCKING



STANDARD FIRE HYDRANT ASSEMBLY "T" TYPE
N.T.S.

- ### TAYLOR NOTES
- WATER MAIN PIPE THREE INCHES IN DIAMETER AND LARGER SHALL BE DUCTILE IRON CLASS 54, OR FUSIBLE PVC C900 WITH TRACER WIRE.
 - DOMESTIC SERVICE TWO INCHES IN DIAMETER OR SMALLER SHALL BE TYPE "K" COPPER PIPE, OR HDPE DR 11 WITH 12 GAUGE SOLID CORE TRACER WIRE, NON-BRAIDED.
 - CORPORATION STOPS SHALL BE FORD, MODEL F1000-x-0, 1-INCH MINIMUM SIZE, AWWA TAPER THREAD INLET AND QUICK JOINT TYPE OUTLET WITH SOLID INSERT STIFFENER.
 - SERVICE SADDLES SHALL BE FORD, MODEL 202BS, WITH AWWA TAPER THREAD OUTLETS.
 - CURB STOPS SHALL BE FORD, MINNEAPOLIS PATTERN, MODEL B44-xxxM-0, 1-INCH MINIMUM SIZE, QUICK JOINT INLET AND OUTLET. CURB BOXES IN NON-PAVED AREAS SHALL BE FORD, EXTENSION TYPE WITH MINNEAPOLIS PATTERN BASE, MODEL EM1-xx-46, 1-INCH INSIDE DIAMETER (ONE PIECE LID) 5-FOOT MINIMUM EXTENDED LENGTH. CURB BOXES IN PAVED AREAS SHALL BE FORD, EXTENSION TYPE WITH MINNEAPOLIS PATTERN BASE, MODEL EM2-xx-46, 1-INCH INSIDE DIAMETER, 5-FOOT MINIMUM EXTENDED LENGTH (COMBINATION LID WITH PENTAGON PLUG).
 - ALL NECESSARY FITTINGS FOR THE INSTALLATION OF THE WATER MAIN ARE TO MEET THE CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT STANDARDS.
 - ALL EXISTING WATER MAINS ARE TO BE KEPT IN SERVICE DURING CONSTRUCTION OPERATIONS UNLESS ARRANGEMENTS WITH THE CITY WATER DEPARTMENT ARE MADE. THE CITY OF TAYLOR WATER DEPARTMENT WILL BE THE ONLY AUTHORIZED PERSONNEL TO OPERATE THE VALVES ON THE MAIN LINE.
 - FIRE HYDRANTS SHALL BE EAST JORDAN IRON WORKS "WATERMASTER" 5 BR. MODEL 250, CONFORMING TO A.W.W.A. C502 IMPROVED HYDRANT SPECIFICATIONS. HYDRANTS SHALL BE DESIGNED TO OPEN IN A COUNTER-CLOCKWISE DIRECTION WITH AN OPENING ARROW CAST INTO THE BONNET AND SHALL HAVE SEAT VALVE AND DOUBLE OPERATING STEM O-RING SEALS, 6-INCH DIA VALVE OPENING, 6-INCH DIA MECHANICAL JOINT HUB AND TWO 4-INCH DIA PUMPER NOZZLES.
 - HYDRANTS SHALL BE EQUIPPED WITH CITY OF DETROIT FIRE DEPARTMENT STANDARD NOZZLE THREADS AND OPERATING NUT AND SHALL BE ORDERED FOR 6.5 FOOT BURY. HYDRANTS SHALL BE PAINTED RED.
 - HYDRANT RUNS LONGER THAN 10 LF SHALL BE 8-INCH DIAMETER PIPE WITH AN 8-INCH BY 6-INCH REDUCER PLACED BEFORE THE HYDRANT ASSEMBLY
 - GATE VALVES, FOR SIZES 4-INCH THROUGH 16-INCH DIA SHALL BE EAST JORDAN IRON WORKS FLOW MASTER, MUELLER 2360 SERIES, OR U.S. PIPE METROSEAL, RESILIENT WEDGE TYPE, CONFORMING TO A.W.W.A. C509 OR C515 SPECIFICATION. VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 200 P.S.I. AND A TEST PRESSURE OF 400 P.S.I. AND TO OPEN IN A CLOCKWISE DIRECTION AND SHALL HAVE A 2-INCH SQUARE OPERATIONS NUT AND DOUBLE OPERATING STEM O-RINGS. VALVES SHALL BE ORDERED WITH INLET AND OUTLET CONNECTIONS COMPATIBLE TO THE WATER PIPE JOINTS USED ON THE SYSTEM.
 - FRAME AND COVERS SHALL BE SPECIFIED AS FOLLOWS:
 A. FRAME SHALL BE E11040-1 ZPT
 B. COVER SHALL BE 1040A (WATER) WITH CITY LOGO

CITY OF TAYLOR

STANDARD WATER MAIN DETAILS (WM-2)

ISSUED FOR: DATE: BY:

JOB NO.

SHEET

WM-2

20251 Nepheline Rd.
 PO Box 10
 Taylor, MI 48180
 www.wadetrims.com

WADE TRIM

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