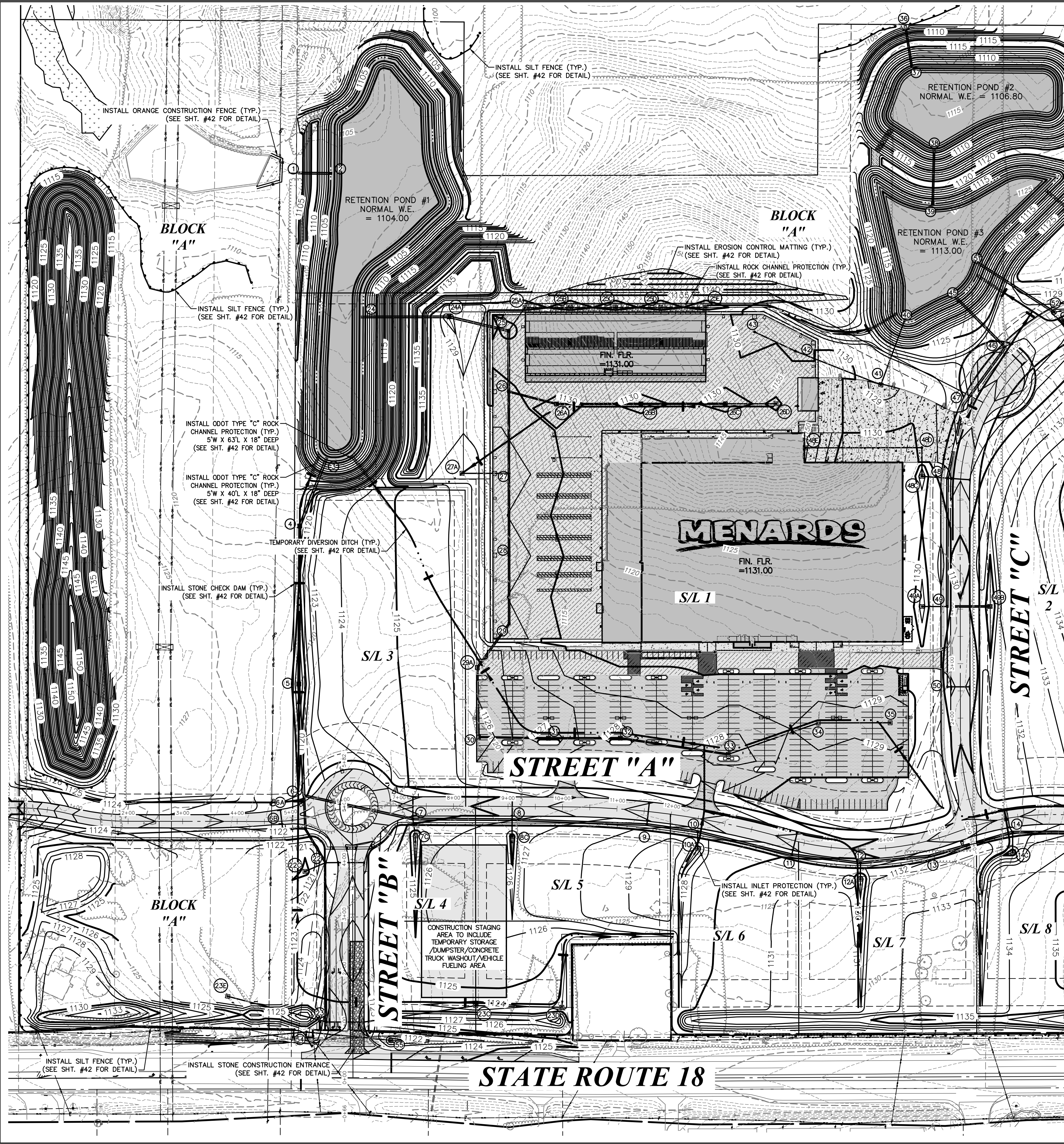




CONSTRUCTION SCHEDULE

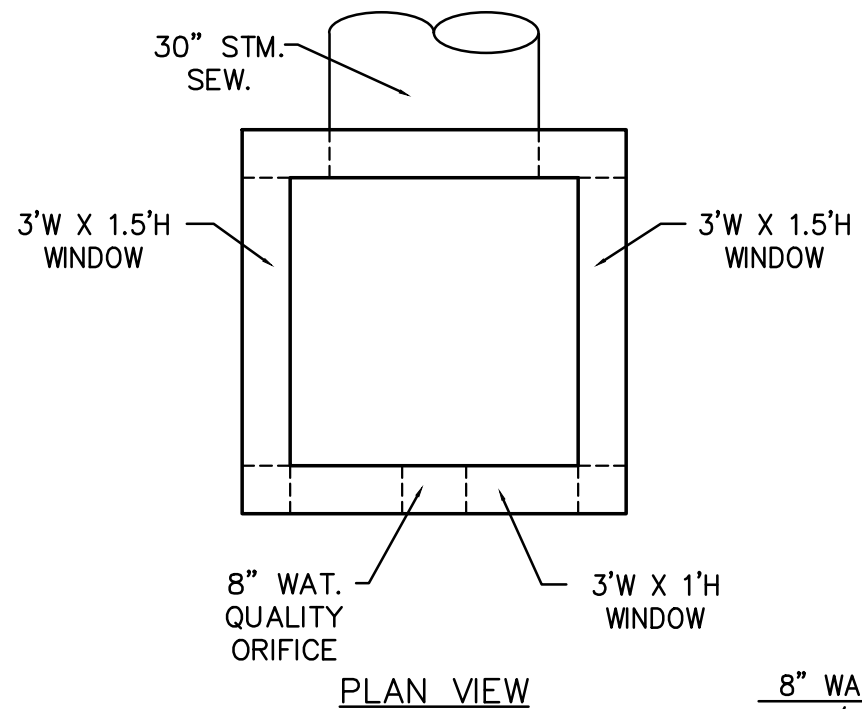
1. INSTALL STONE CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE.
3. BUILD RETENTION PONDS & SEED IMMEDIATELY.
4. BUILD DIVERSION DITCHES.
5. INSTALL ROCK CHECK DAMS.
6. CLEARING AND GRUBBING.
7. BEGIN GRADING OPERATIONS.
8. TEMPORARY SEEDING.
9. UTILITY CONSTRUCTION.
10. INSTALL INLET PROTECTION.
11. PAVING.
12. PERMANENT SEEDING.
13. REMOVE FROM SITE ALL SILT FENCE AND INLET PROTECTION AFTER UPSTREAM AREAS ARE STABILIZED.
14. STABILIZE ALL REMAINING AREAS.

NOTES:

1. PROPOSED PONDS TO FUNCTION AS A SEDIMENT BASIN DURING CONSTRUCTION.
2. INSTALL INLET PROTECTION AT ALL INLET BASINS.
3. ANY FIELD TILES DISTURBED DURING GRADING MUST BE RESTORED TO EXISTING CONDITIONS OR CONNECTED TO THE PROPOSED STORM SEWER.

PROJECT DESCRIPTION

COMMERCIAL CONSTRUCTION OF ROADS AND UTILITIES FOR 11 COMMERCIAL LOTS

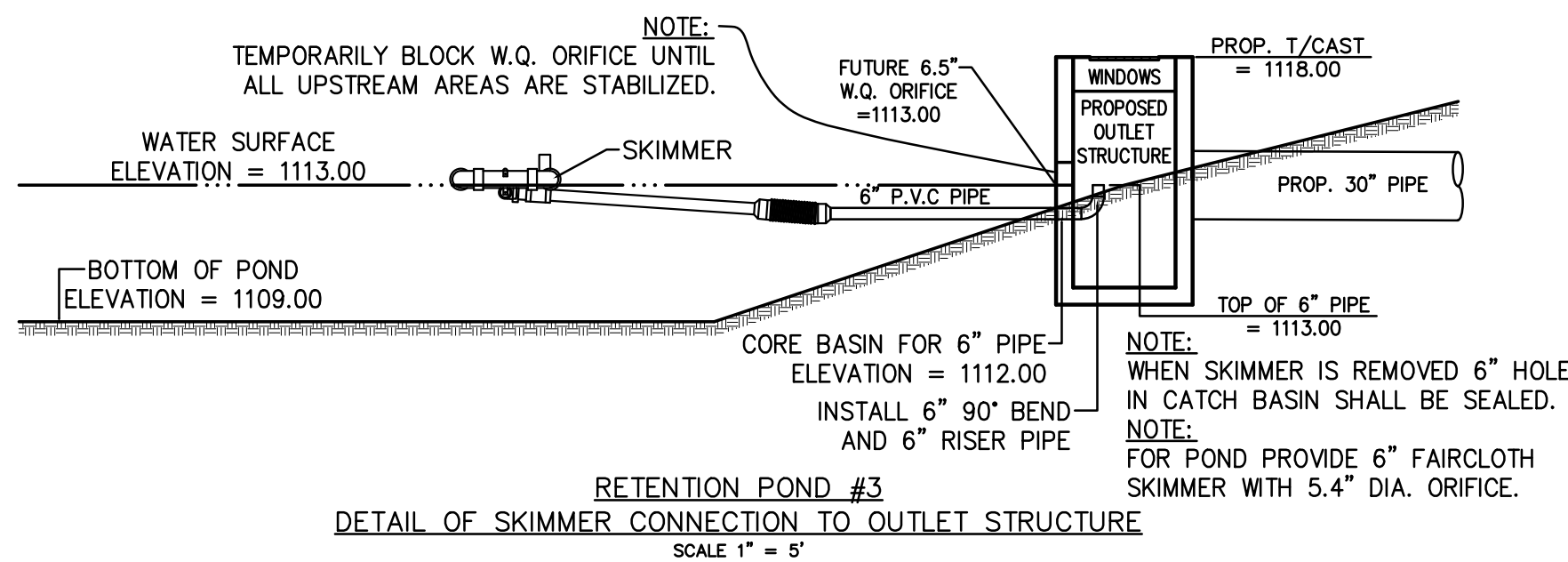


NOTE: WHEN ALL UPSTREAM AREAS ARE STABILIZED, REMOVE SEDIMENT CONTROL SKIMMER, PERMANENTLY PLUG HOLE FOR SKIMMER PIPE, OPEN 8" WATER QUALITY ORIFICE.

NOTE: ALL CONNECTIONS TO OUTLET STRUCTURE ARE TO BE WATER TIGHT.

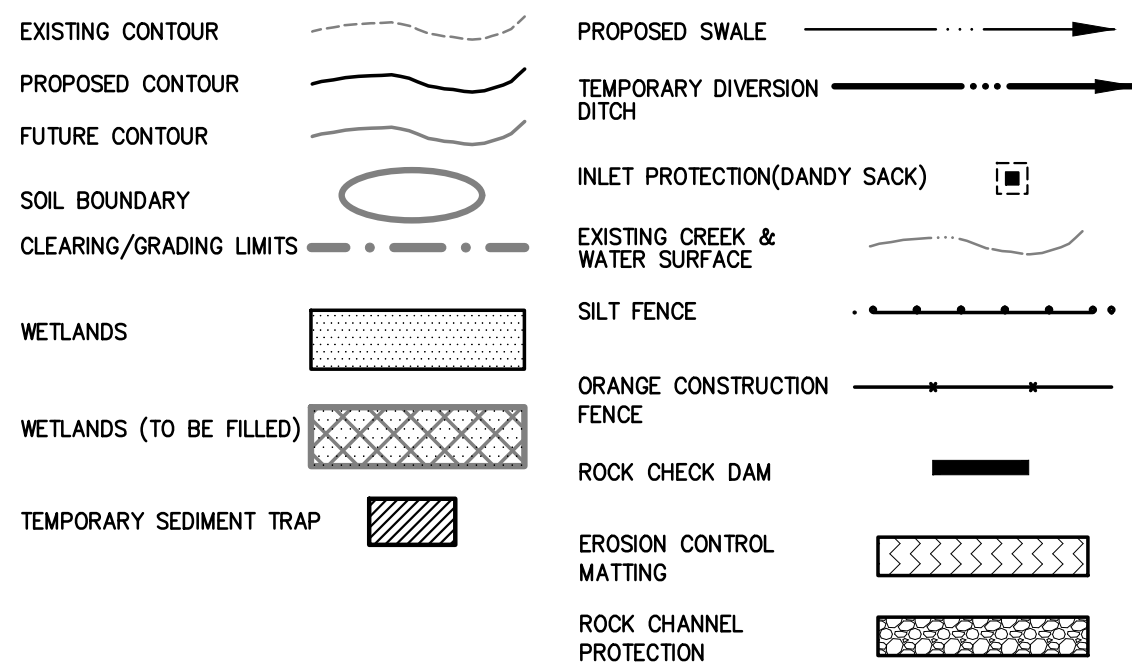
NOTE: SEE THIS SHEET FOR SKIMMER DETAILS

RETENTION POND #1
OUTLET STRUCTURE #2 DETAIL
SCALE 1" = 2'



RETENTION POND #3
DETAIL OF SKIMMER CONNECTION TO OUTLET STRUCTURE
SCALE 1" = 5'

GRADING LEGEND



GRADING/EARTHWORK NOTES:

1. EARTHWORK PERFORMED ON ALL OUTLOTS TO INCLUDE ENGINEERED FILL IN ANTICIPATION OF FUTURE PAVEMENT AND BUILDINGS. EXCAVATION/EMBANKMENT TO FOLLOW RECOMMENDATIONS OF THE OWNERS GEOTECHNICAL/SOILS REPORT.
2. EXCESS TOPSOIL SHALL BE PLACED IN THE PROPOSED MOUNDING AREAS AS FOLLOWS:
(A) MOUNDING ALONG WEST PROPERTY LINE ADJACENT TO PINNACLE.
(B) MOUNDING ALONG S.R. 18 AND MEDINA LINE ROAD.
(C) MOUNDING BETWEEN RETENTION POND #1 AND MENARDS FUTURE EXPANSION AREA.
3. TOPSOIL SHALL BE RESPAVED OVER ALL DISTURBED AREAS 4" THICK OR AS DIRECTED BY THE OWNER.

PRIOR LAND USE

RESIDENTIAL, AGRICULTURAL AND UNDEVELOPED LAND
TOTAL SITE AREA = 124.28 Acres
TOTAL AREA TO BE DISTURBED = 84.43 Acres

ESTIMATED TOTAL - IMPERVIOUS SURFACES = 19.1 Acres
ESTIMATED TOTAL PERCENTAGE - IMPERVIOUS SURFACES = 15.37%

OHIO E.P.A. FACILITY PERMIT # *AG

TRASH GRATE
T/BANK = 1110.00
T/CAST = 1109.50
T/SPILLWAY = 1109.00
100 YR. = 1108.96

WINDOW = 1107.75
3' WIDE X 1.5' HIGH
(TWO SIDES - N,S)
WINDOW = 1105.09
3' WIDE X 1' HIGH
(ONE SIDE - E)
NORMAL W.E. = 1104.00
30" F.L. = 1104.00
8" WATER QUALITY ORIFICE = 1104.00
W/E, J.I.W #5954-6 TRAP & HOOD
(TO BE PLUGGED UNTIL ALL
UPSTREAM AREAS ARE STABILIZED)

SUMP = 1102.00

POND BTM. = 1100.00

THE MARKET AT MEDINA LINE - PHASE 1

LOCATED IN

TOWNSHIP OF GRANGER

COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.

CIVIL ENGINEERING AND SURVEYING

203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5980

SHEET TITLE:

OVERALL GRADING AND
STORMWATER POLLUTION
PREVENTION PLAN

DRAWN BY: TEM
DATE: 11/20/20

CHECKED BY: _____
DATE: _____

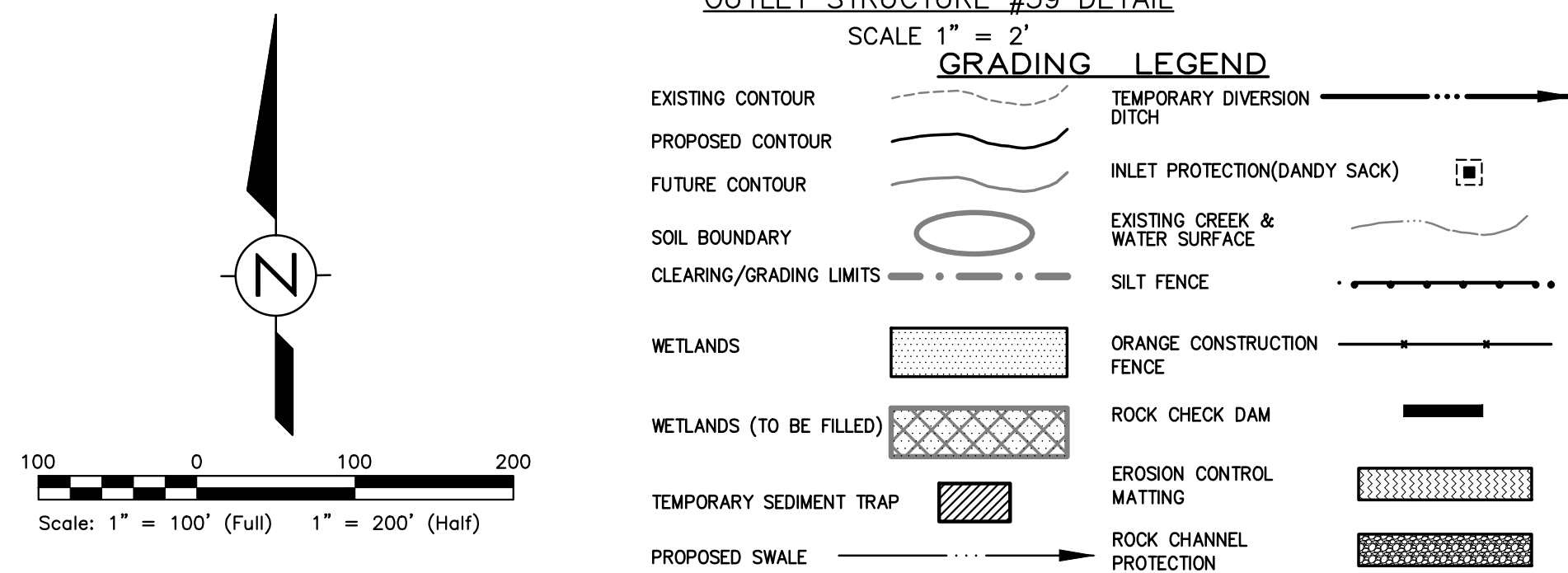
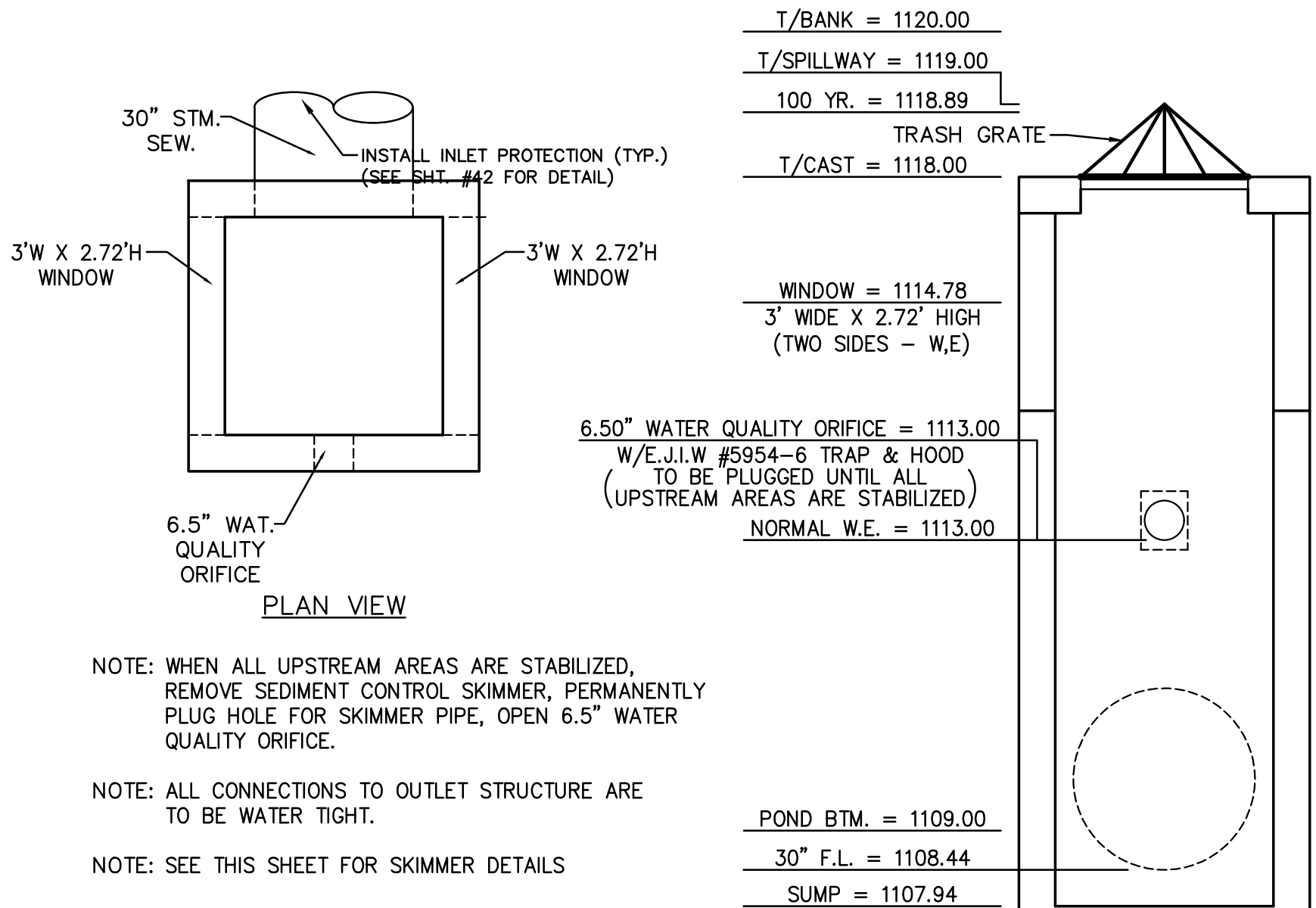
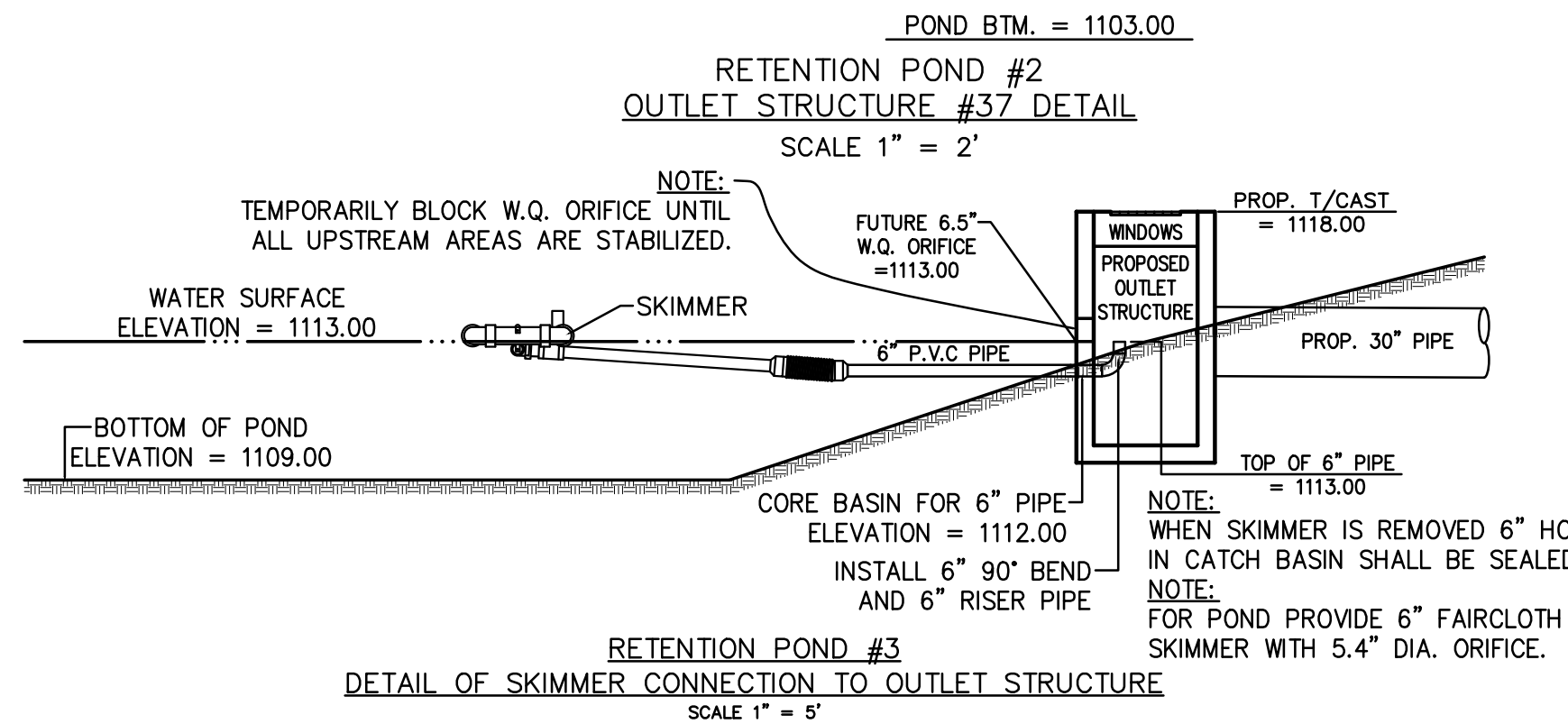
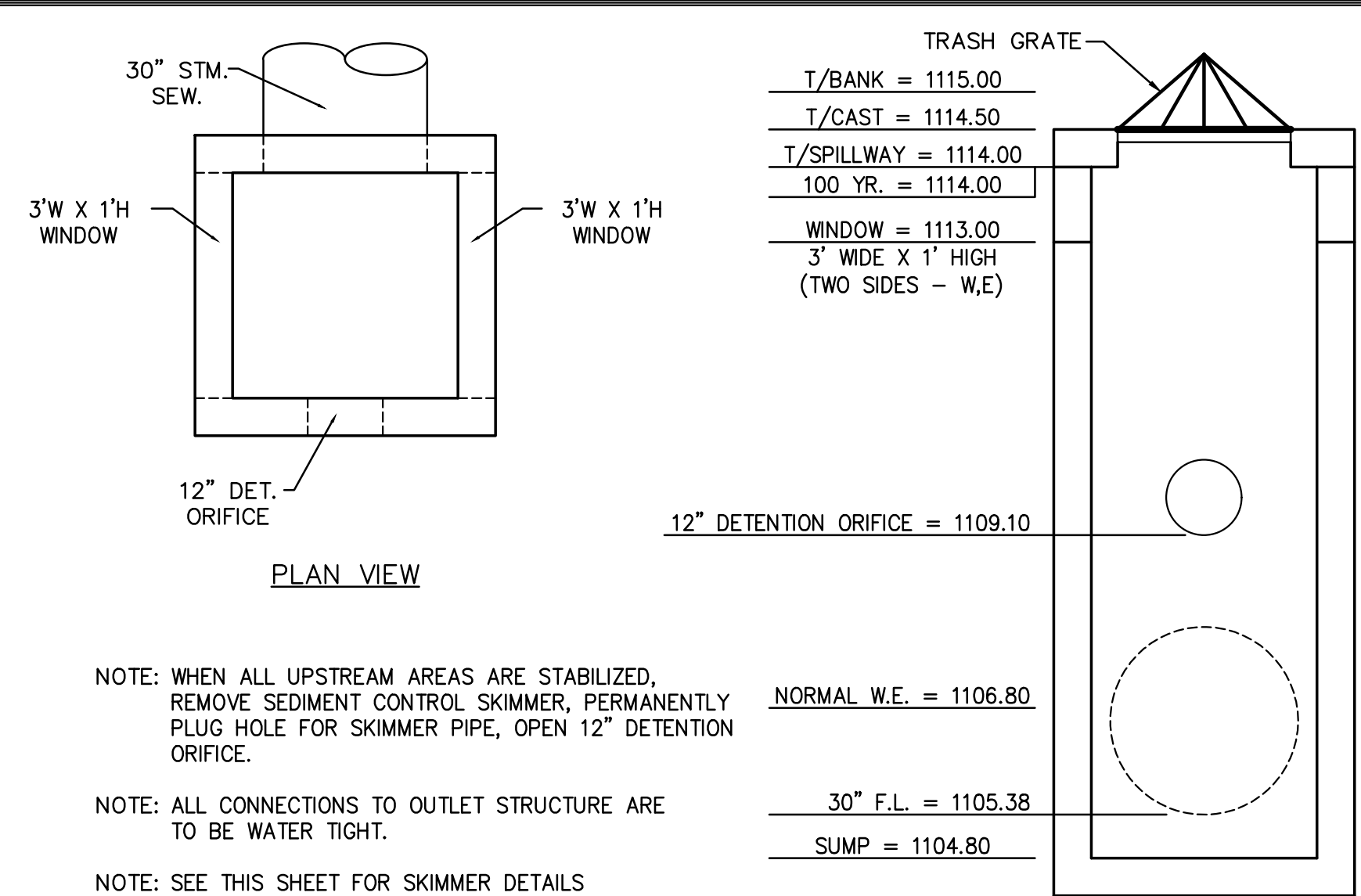
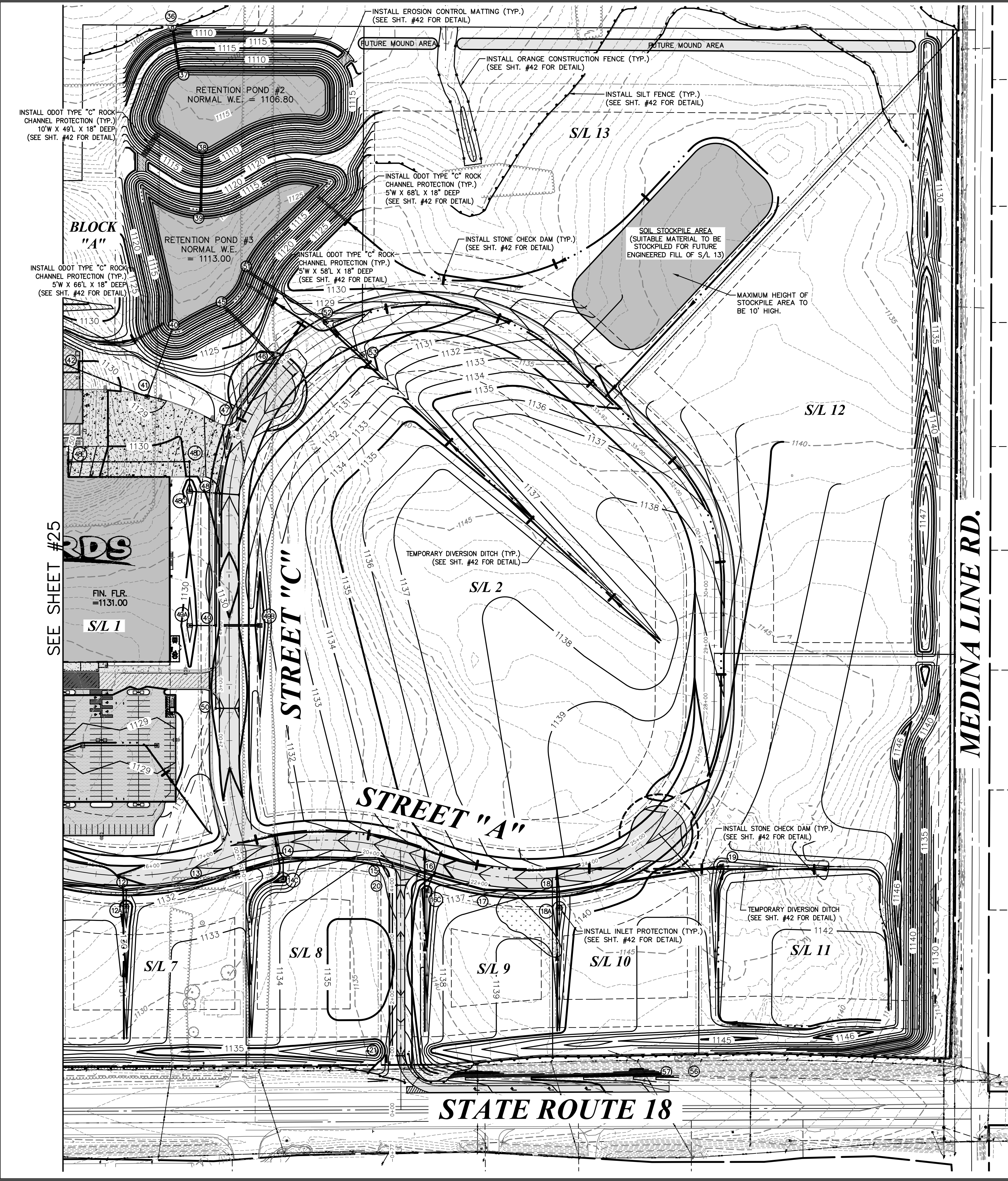
PROJECT No.
19-186

ACAD FILE No.
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SCALE: PLAN- 1"=100'
PROFILE-Horz.
Vert.

SHEET NO.

25
46



REVISIONS	DATE	DESCRIPTION	BY	CHKD
1	3/2/21	Per KCS/NC/2007 Rev. 1	TEAM	TEAM
2	4/8/21	Township Submittal	TEAM	TEAM

THE MARKET AT MEDINA LINE - PHASE 1
LOCATED IN
TOWNSHIP OF GRANGER
COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING AND SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256-5960

SHEET TITLE:
OVERALL GRADING AND STORMWATER POLLUTION PREVENTION PLAN

DRAWN BY: TEAM
DATE: 11/20/20
CHECKED BY:
DATE:
PROJECT No. 19-186
ACAD FILE No. M:\19186-GRI.dwg

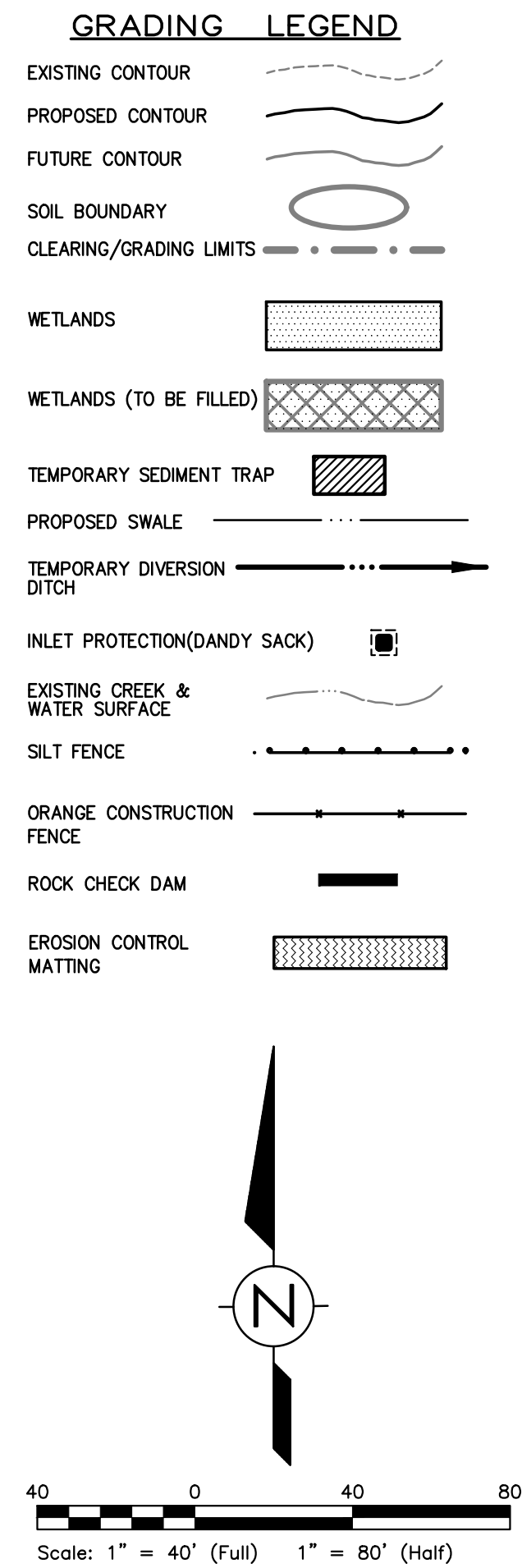
SCALE: PLAN- 1"=100'
PROFILE-Horz. Vert.

SHEET NO.
26
46

CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5980

DRAWN BY: <u>TEM</u> DATE: <u>11/20/20</u> CHECKED BY: _____ DATE: _____
PROJECT No. <u>19-186</u>
ACAD FILE No. <u>M:\1... \19186-GR1.dwg</u>
_____ _____

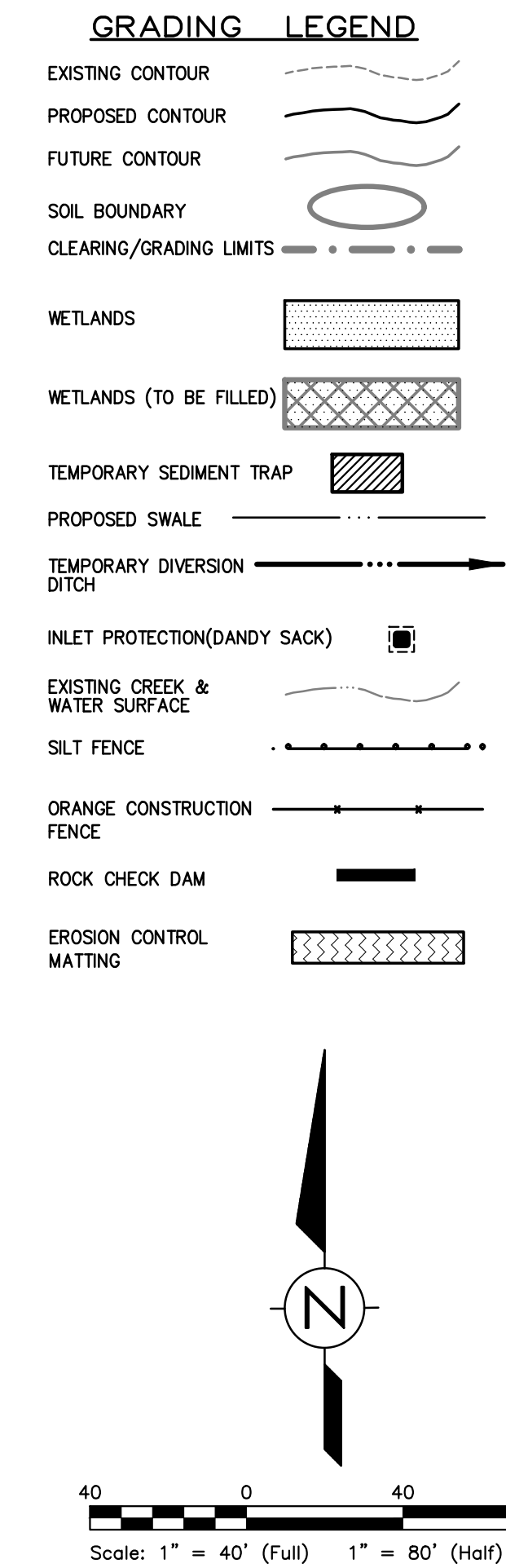
SHEET NO.
27
46



SHEET TITLE:

SHEET NO.

29 / 46

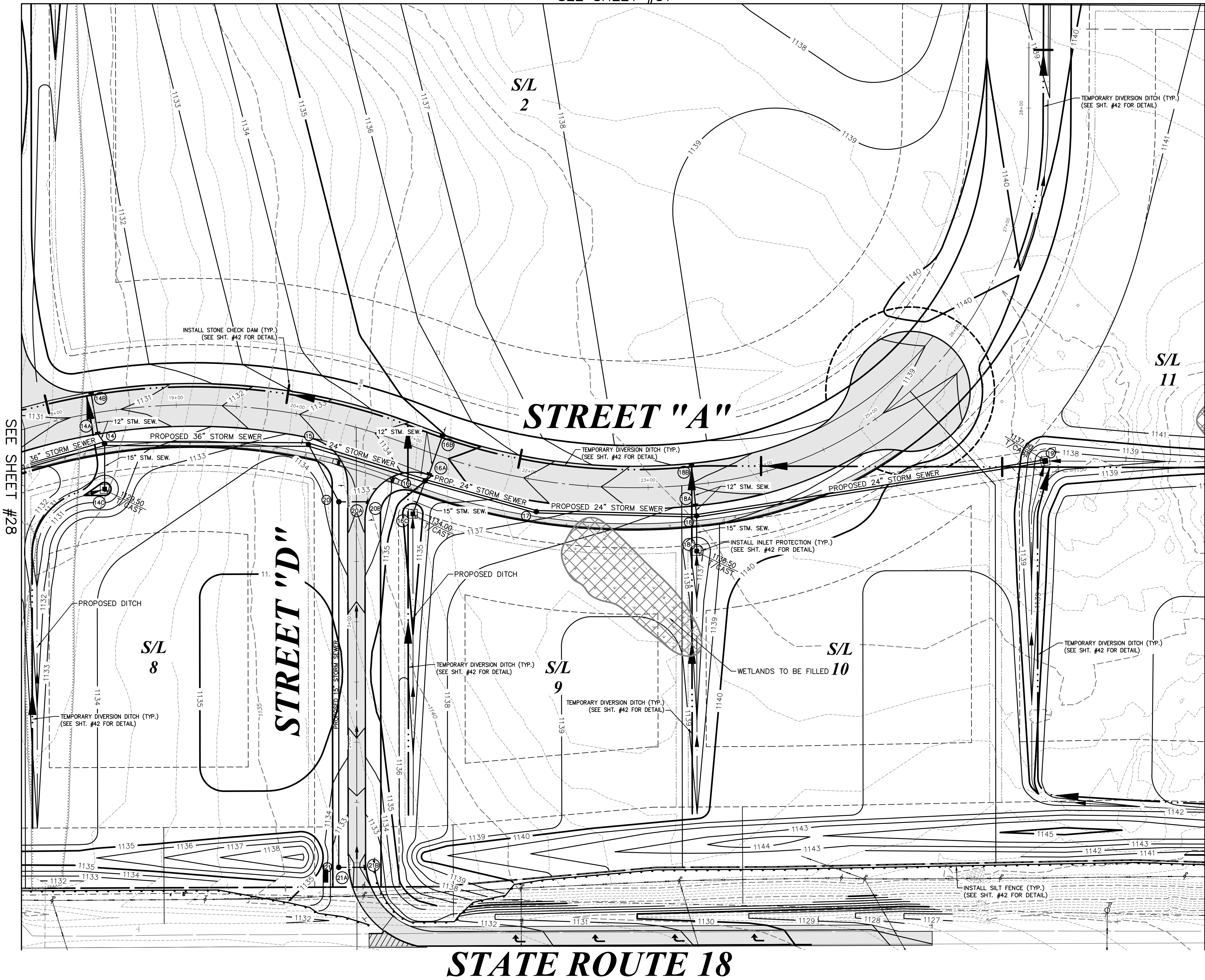


SEE SHEET #30 & #31

SEE SHEET #28

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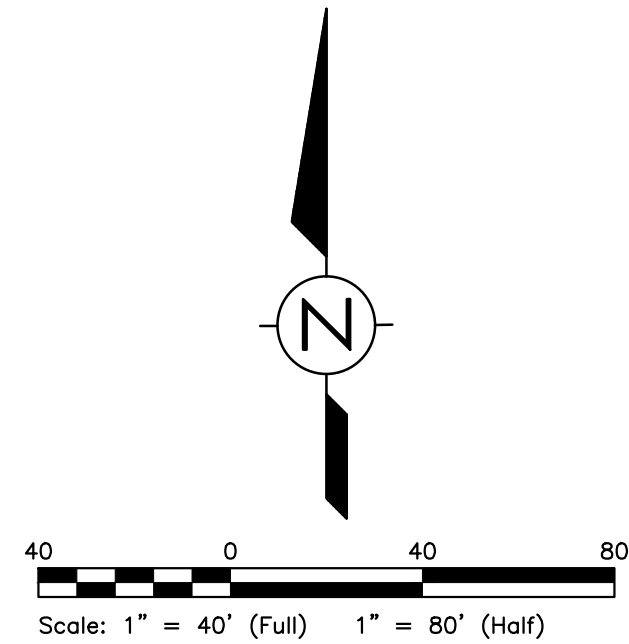
SEE SHEET #31



SEE SHEET #28

SEE SHEET #32

- GRADING LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - FUTURE CONTOUR
 - SOIL BOUNDARY
 - CLEARING/GRADING LIMITS
 - WETLANDS
 - WETLANDS (TO BE FILLED)
 - TEMPORARY SEDIMENT TRAP
 - PROPOSED SWALE
 - TEMPORARY DIVERSION DITCH
 - INLET PROTECTION(DANDY SACK)
 - EXISTING CREEK & WATER SURFACE
 - SILT FENCE
 - ORANGE CONSTRUCTION FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL MATTING



DATE	DESCRIPTION	BY
3/2/21	Per (C)S&P/2007 Rev. 17M	TEA
4/8/21	Township Submittal	TEA

THE MARKET AT MEDINA LINE - PHASE 1
LOCATED IN
TOWNSHIP OF GRANGER
CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5960

SHEET TITLE:
**DETAILED GRADING AND
STORMWATER POLLUTION
PREVENTION PLAN**

DRAWN BY:	TEA
DATE:	11/20/20
CHECKED BY:	
DATE:	
PROJECT No.	19-186
ACAD FILE No.	
File Name:	19186-GR1.dwg

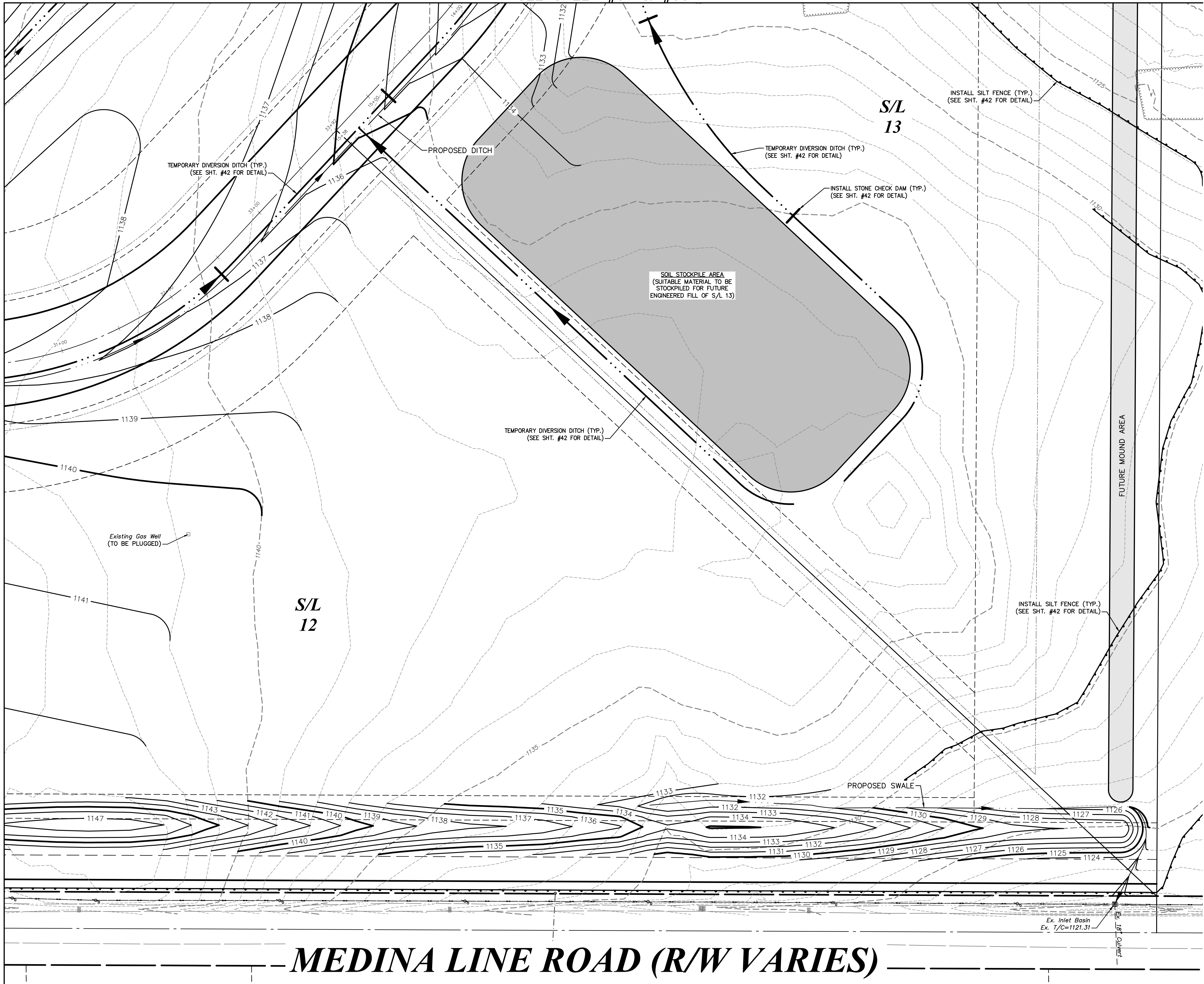
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PROFILE-Hor. Vert.

SHEET NO.
30 / 46

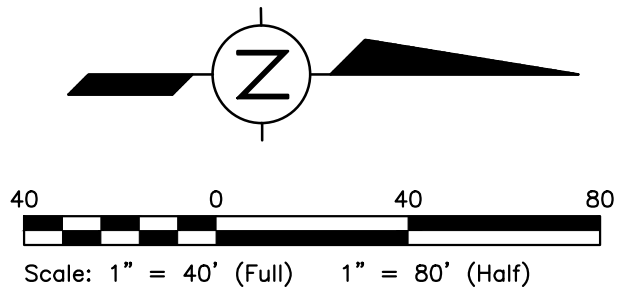
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SEE SHEET #32

SEE SHEET #31 & #35



- GRADING LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - FUTURE CONTOUR
 - SOIL BOUNDARY
 - CLEARING/GRADING LIMITS
 - WETLANDS
 - WETLANDS (TO BE FILLED)
 - TEMPORARY SEDIMENT TRAP
 - PROPOSED SWALE
 - TEMPORARY DIVERSION DITCH
 - INLET PROTECTION(DANDY SACK)
 - EXISTING CREEK & WATER SURFACE
 - SILT FENCE
 - ORANGE CONSTRUCTION FENCE
 - ROCK CHECK DAM
 - EROSION CONTROL MATTING



DATE	DESCRIPTION	DATE
3/21/21	Per OCS/MS/20207 Permit	TEM
4/8/21	Township Submittal	TEM

THE MARKET AT MEDINA LINE - PHASE 1
LOCATED IN
TOWNSHIP OF GRANGER
COUNTY OF MEDINA
CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5980

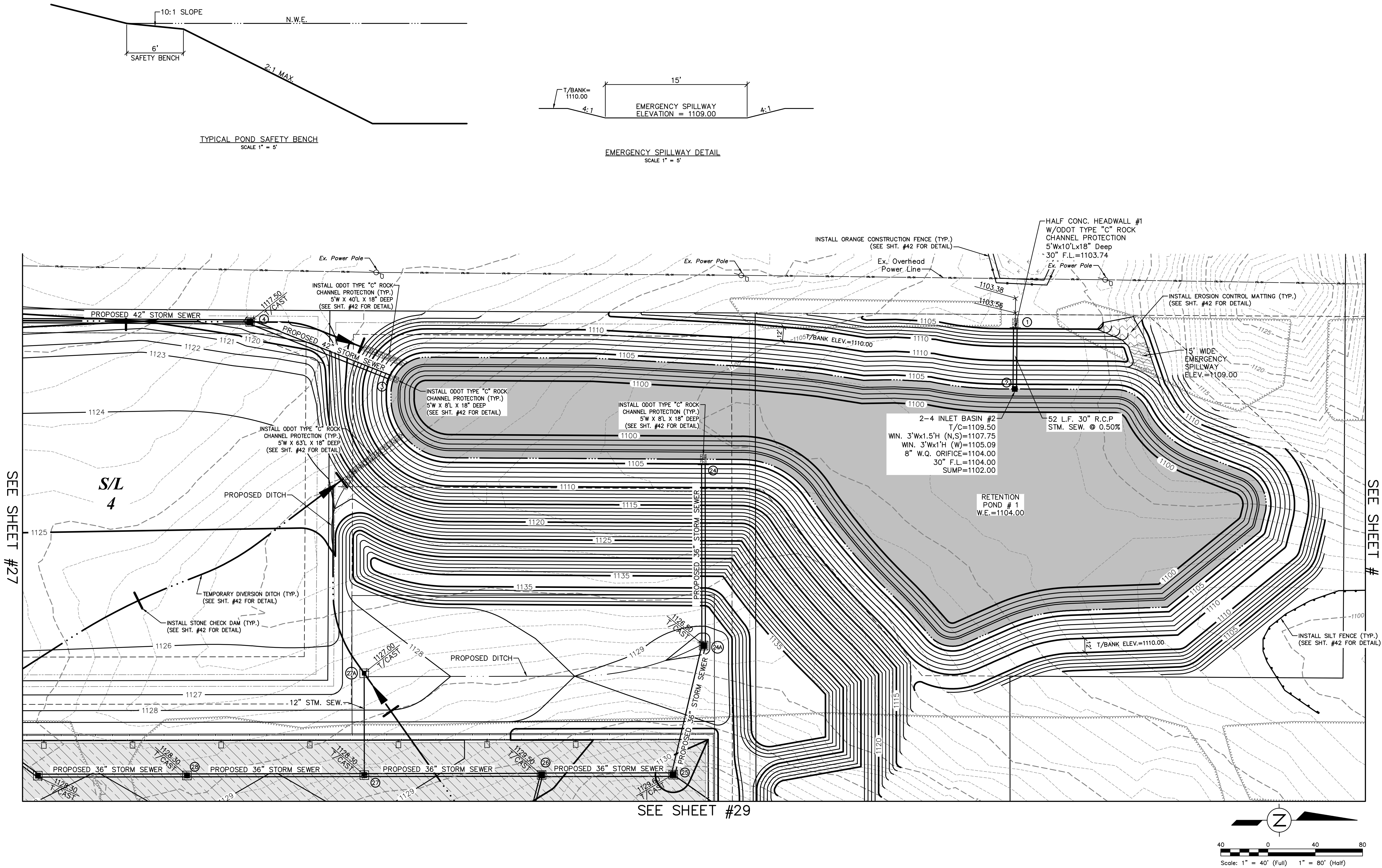
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**DETAILED GRADING AND
STORMWATER POLLUTION
PREVENTION PLAN**

DRAWN BY: TEM
DATE: 11/20/20
CHECKED BY: _____
DATE: _____
PROJECT No.
19-186
ACAD FILE No.
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SCALE: PLAN- 1"=40'
PROFILE-Horz.
Vert.

SHEET NO.
33
46

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REVISIONS	DATE	DESCRIPTION	BY
	3/2/21	Per OCS/MC/2007 Resol. 7244	TEA
	4/8/21	Township Submittal	TEA

THE MARKET AT MEDINA LINE - PHASE 1

LOCATED IN
TOWNSHIP OF GRANGER
COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5960

**WEST DETENTION BASIN DETAILED
GRADING AND STORMWATER
POLLUTION PREVENTION PLAN**

SHEET TITLE:

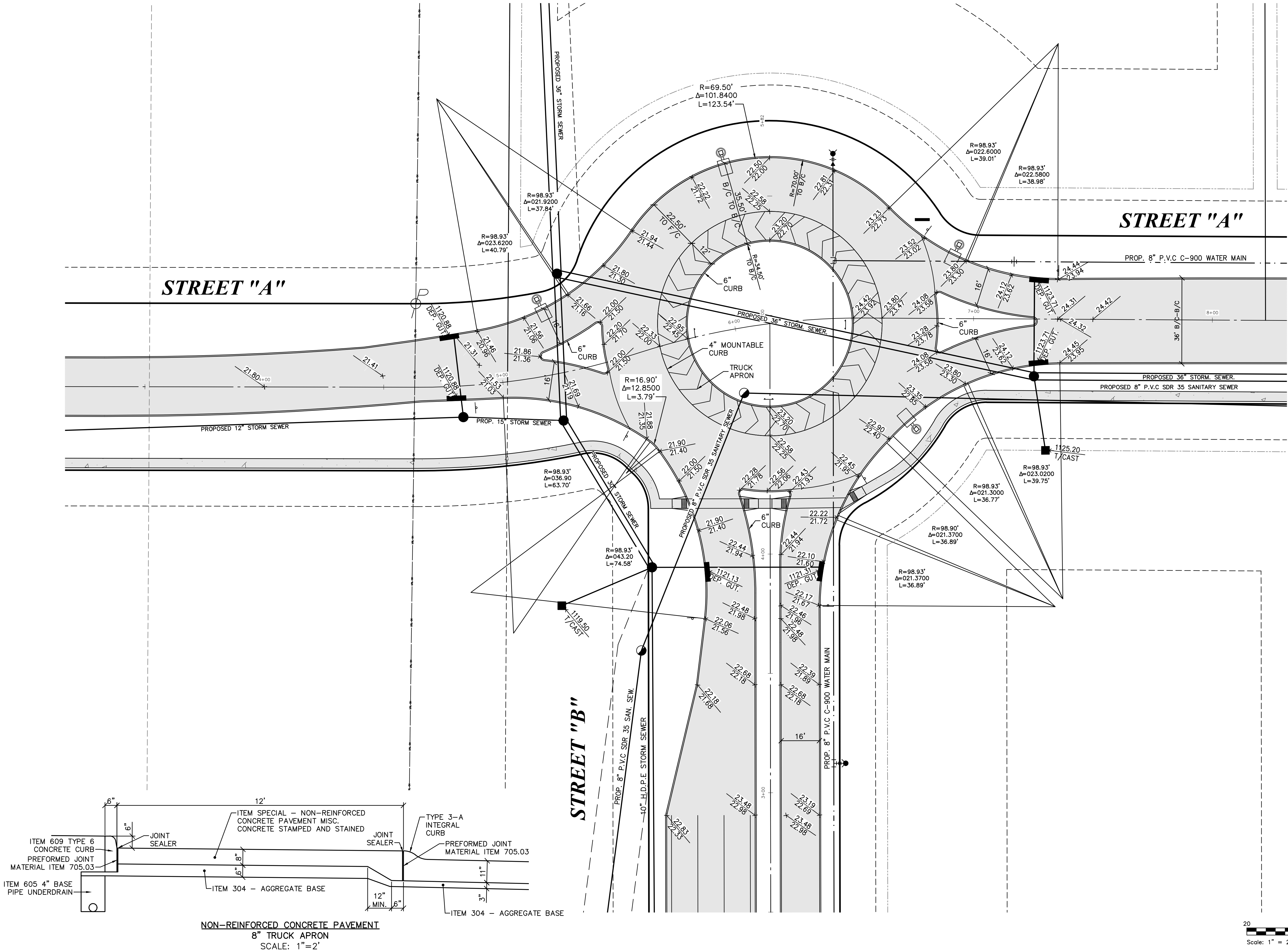
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DATE:	11/20/20
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DATE:	
PROJECT No.	19-186
ACAD FILE No.	M:\...19186-GR1.dwg

SCALE: PLAN	1"=40'
PROFILE-Horz.	
Vert.	

SHEET NO.

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LEGEND

22.60 — PROP. T/CURB
22.10 — PROP T/PWMT
22.10 — PROP T/PWMT

20 0 20 40

Scale: 1" = 20' (Full) 1" = 40' (Half)

N

DATE	DESCRIPTION	DATE
3/2/21	Per (C)S/MC/2007 Res. 724	7/24
4/8/21	Township Submittal	7/24

THE MARKET AT MEDINA LINE PHASE I

LOCATED IN

TOWNSHIP OF GRANGER

COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.

CIVIL ENGINEERING and SURVEYING

203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5960

SHEET TITLE:

INTERSECTION DETAIL

DRAWN BY: TEM

DATE: 11/20/2020

CHECKED BY: _____

DATE: _____

PROJECT No. 19-186

ACAD FILE No. M:\19186-1D1.dwg

SCALE: PLAN: 1"=20'

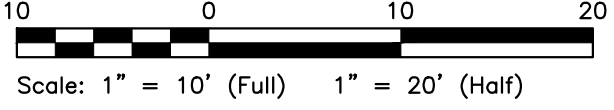
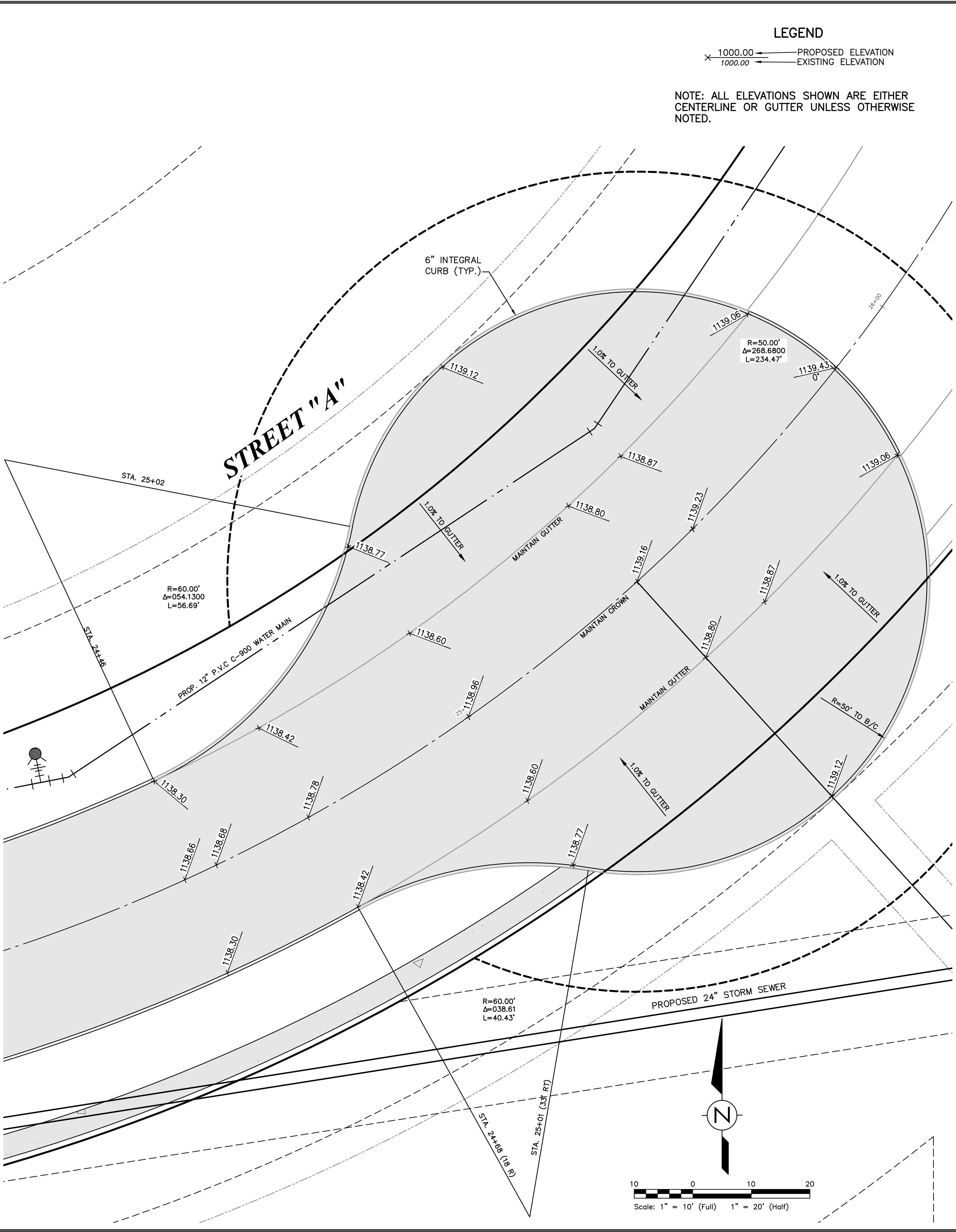
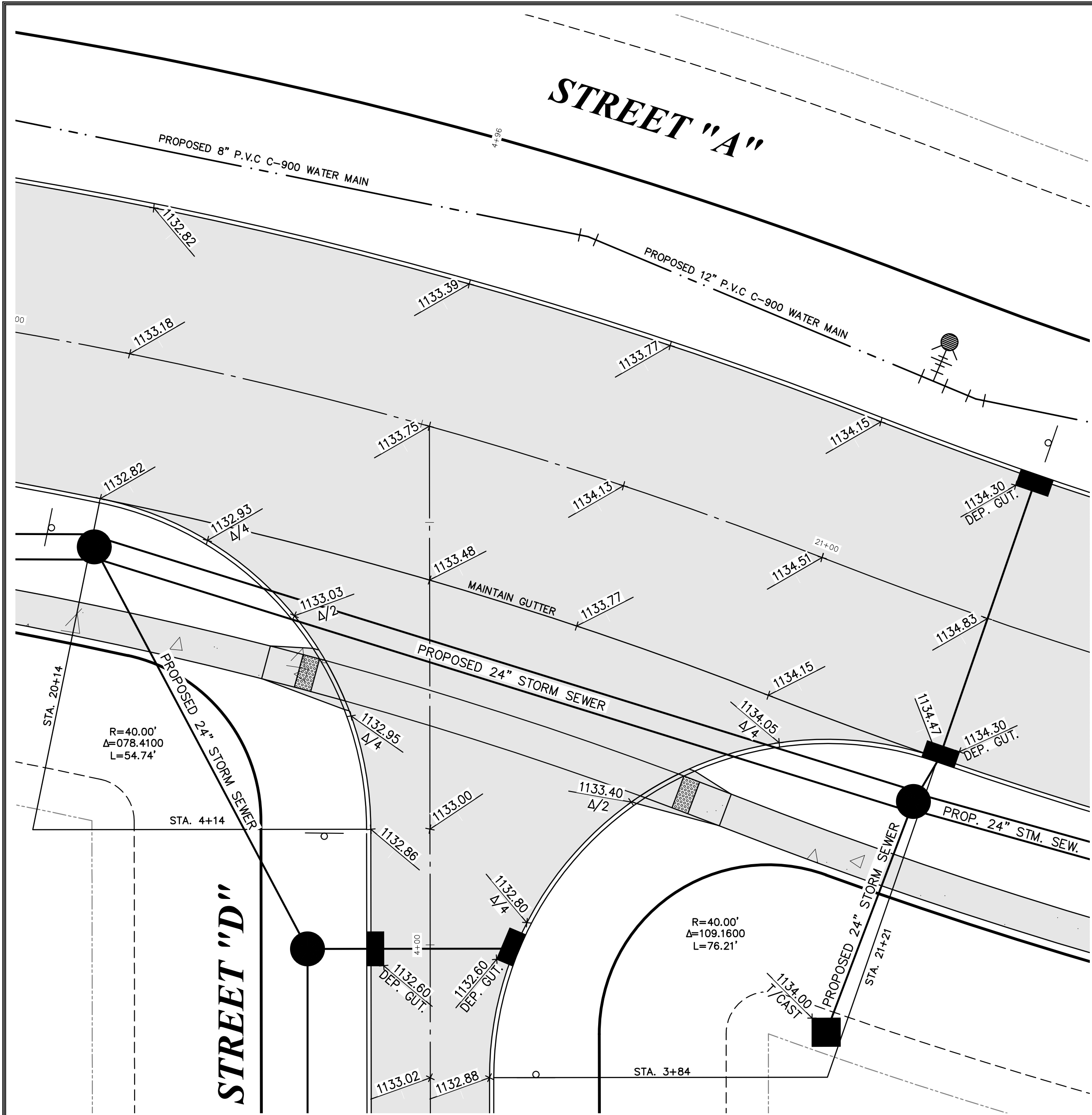
PROFILE-Horz. Vert.

SHEET NO.

36

46

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LEGEND

1000.00 — PROPOSED ELEVATION
1000.00 — EXISTING ELEVATION

NOTE: ALL ELEVATIONS SHOWN ARE EITHER CENTERLINE OR GUTTER UNLESS OTHERWISE NOTED.

REVISIONS	DATE	DESCRIPTION	BY
	3/2/21	Per ACS/AC/20207 Revise	TEM
	4/8/21	Township Submittal	TEM

THE MARKET AT MEDINA LINE PHASE I

LOCATED IN
TOWNSHIP OF GRANGER
COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.

CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5960

SHEET TITLE:

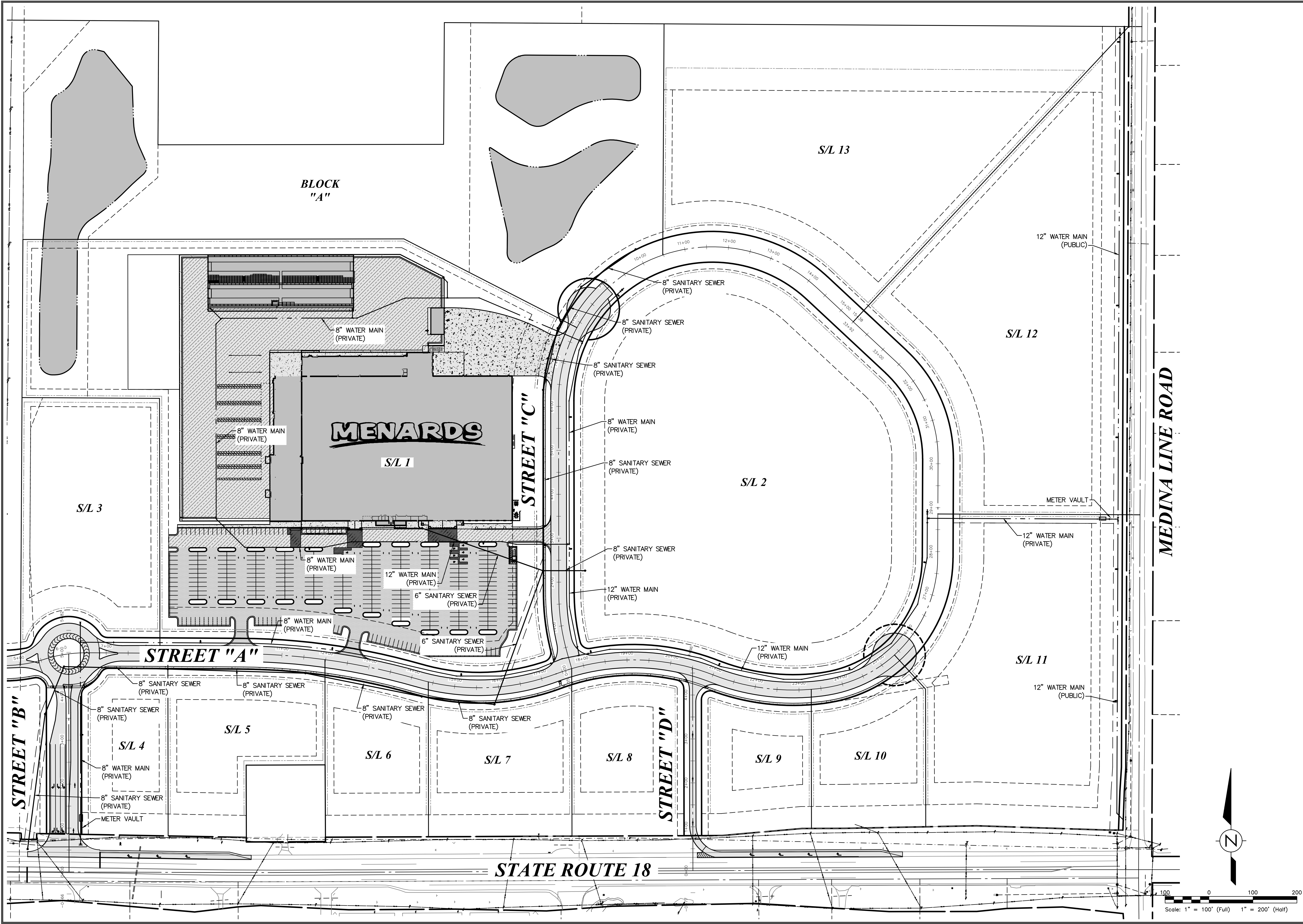
INTERSECTION DETAIL

DRAWN BY:	TEM
DATE:	11/20/20
CHECKED BY:	
DATE:	
PROJECT No.	19-186
ACAD FILE No.	M:\19186-1D1.dwg

SCALE: PLAN- 1"=10'
PROFILE-Horz.
Vert.

SHEET NO.
37 / 46

X:\Job_Folders\2019\19-186\Drawings\Engineered Site Plans\19186-OU.dwg, 3/26/2021 10:31 AM, Autocad



REVISIONS	
DATE	DESCRIPTION
3/2/21	Per (C)S/N/C/2007 Rev. 1
4/8/21	Township Submittal

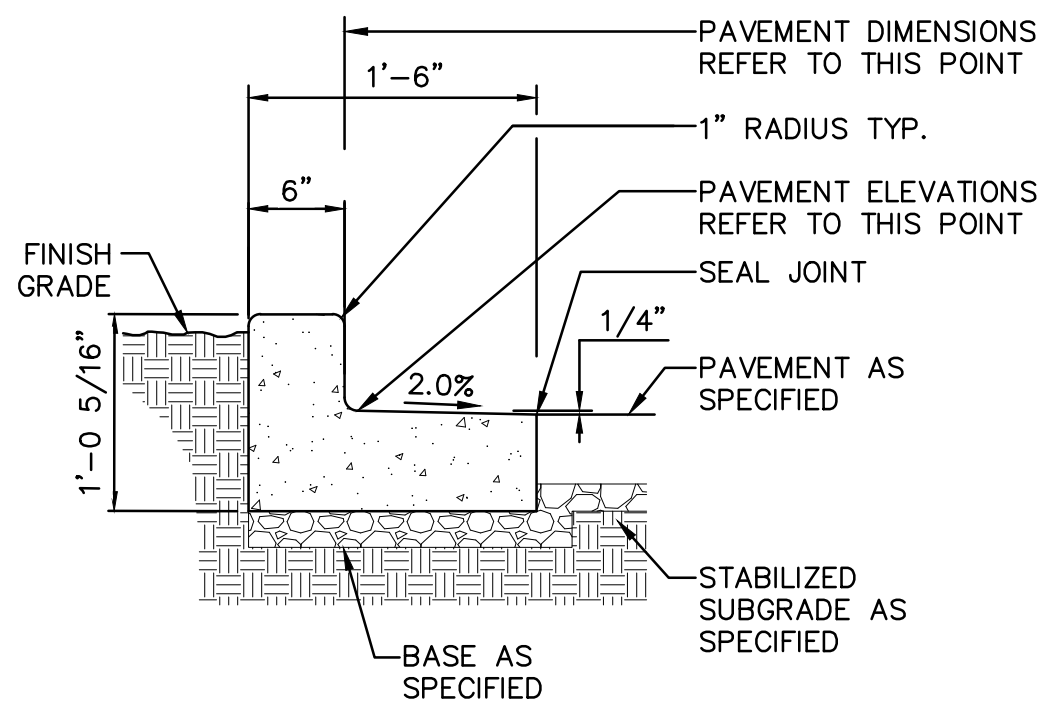
THE MARKET AT MEDINA LINE - PHASE 1	
LOCATED IN	
TOWNSHIP OF GRANGER	
COUNTY OF MEDINA	
CUNNINGHAM & ASSOCIATES, INC.	
CIVIL ENGINEERING and SURVEYING	
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5980	

SHEET TITLE:	
OVERALL LAYOUT	
OF	
SANITARY & WATERMAIN	

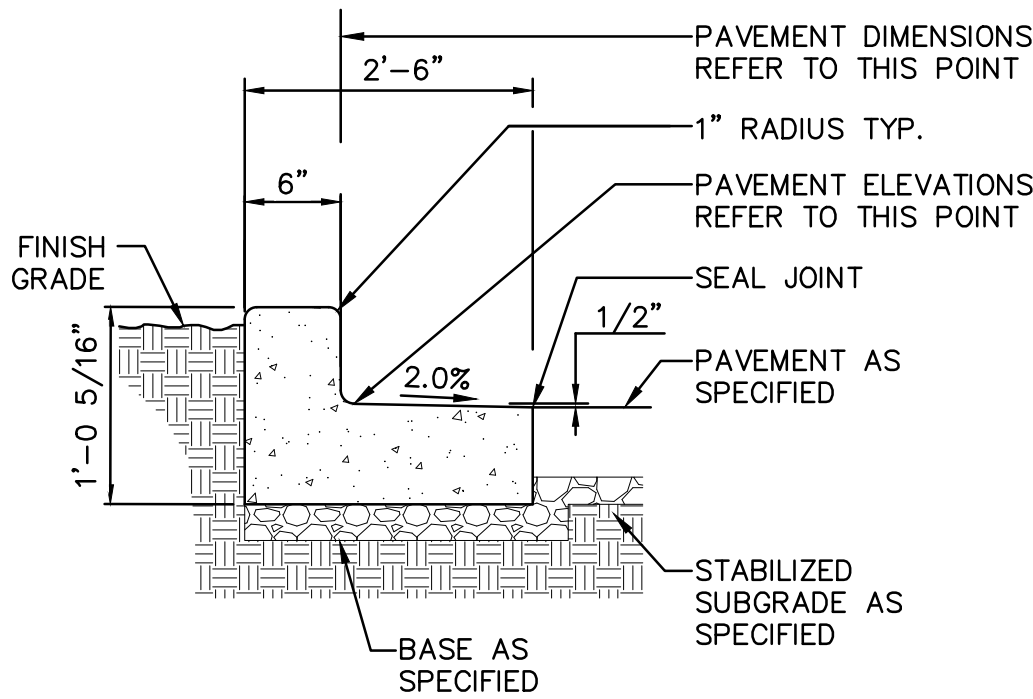
DRAWN BY:	TEM
CHECKED BY:	11/20/20
DATE:	
PROJECT No.	19-186
ACAD FILE No.	M:\19186-OU.dwg

SCALE: PLAN-	1"=100'
PROFILE-Horz.	
Vert.	

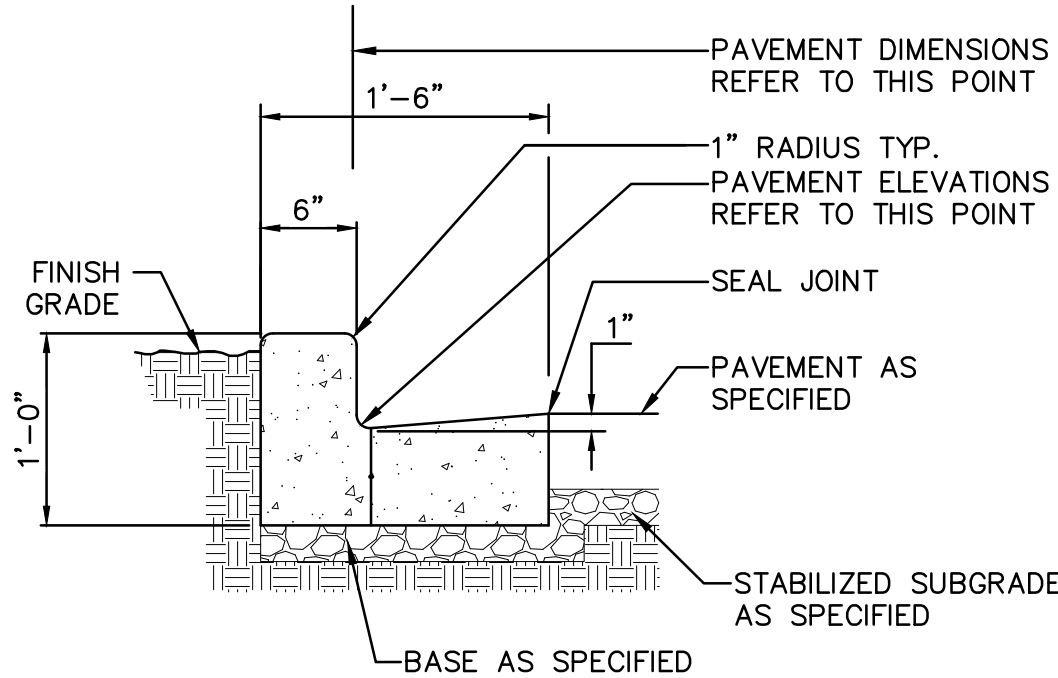
SHEET NO.
39
46



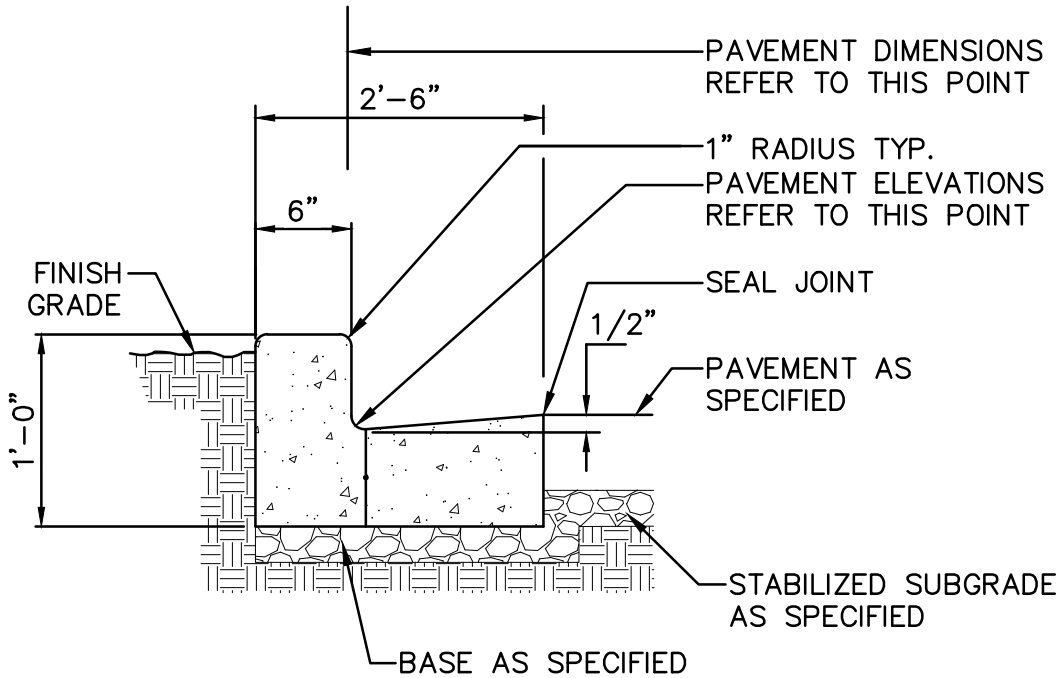
18" P.C.C. CURB & GUTTER (REVERSE PITCH)



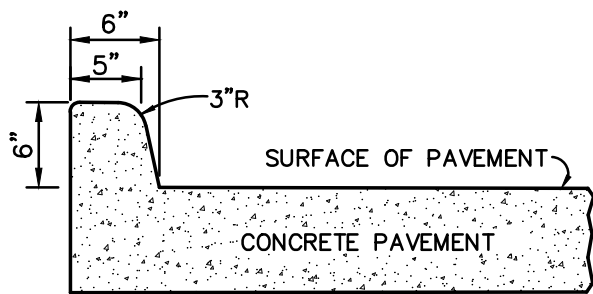
30" P.C.C. CURB & GUTTER (REVERSE PITCH)



18" P.C.C. CURB & GUTTER

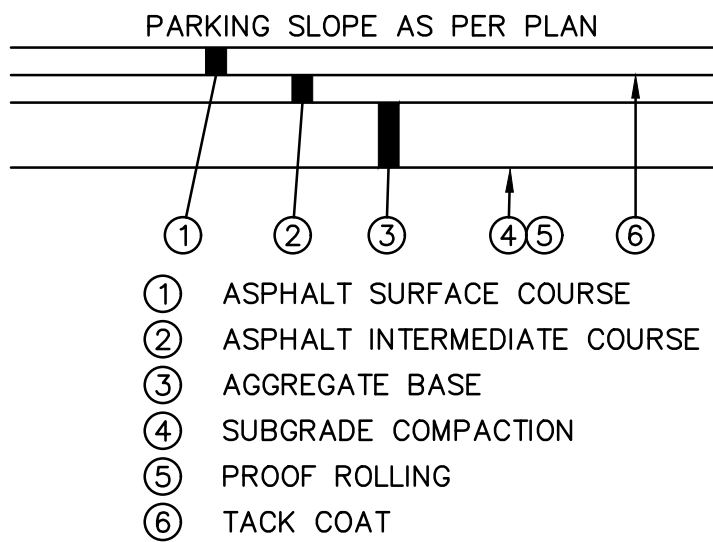


30" P.C.C. CURB & GUTTER



TYPE 2-A CURB DETAIL

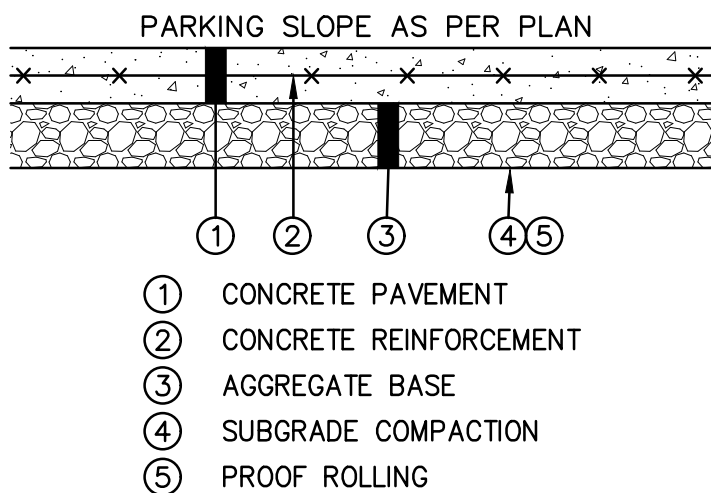
ASPHALT PAVEMENT			
MATERIAL	DEPTH (Hvy. DUTY)	DEPTH (STD. DUTY)	ODOT SPECIFICATIONS ITEM
A.C. SURFACE COURSE	2"	1.5"	424
A.C. INTERMEDIATE COURSE	3.5"	2.5"	441
AGG. BASE COURSE	10"	6"	304
SUBGRADE COMPACTION	*PER SOILS REPORT	*PER SOILS REPORT	*PER SOILS REPORT



NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT INCLUDING SAW CUT JOINTS.
2. SEE SITE PLAN FOR PAVEMENT THICKNESSES.

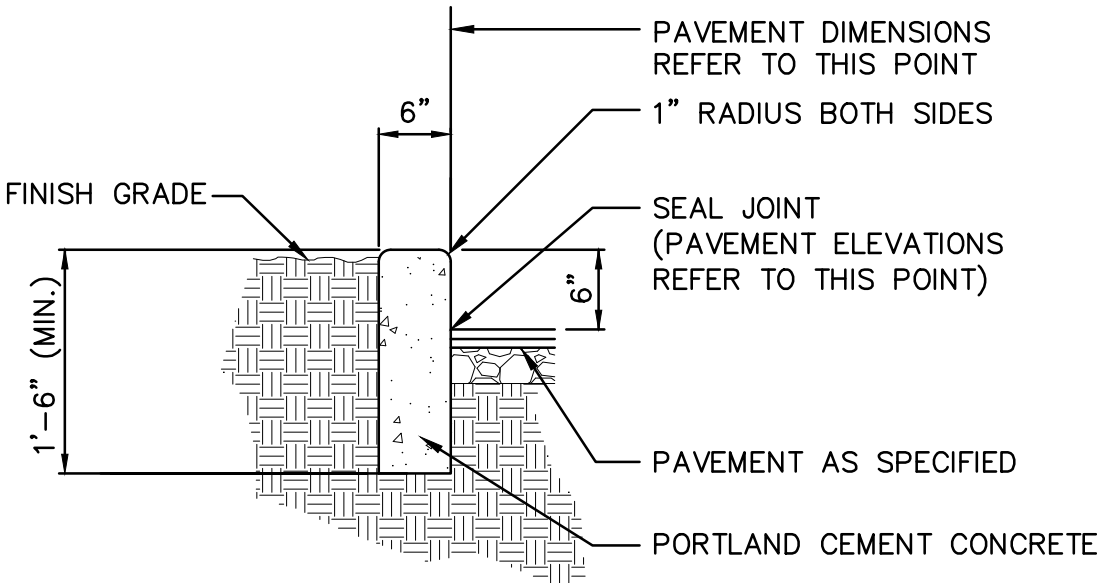
TYPICAL PAVEMENT SECTION



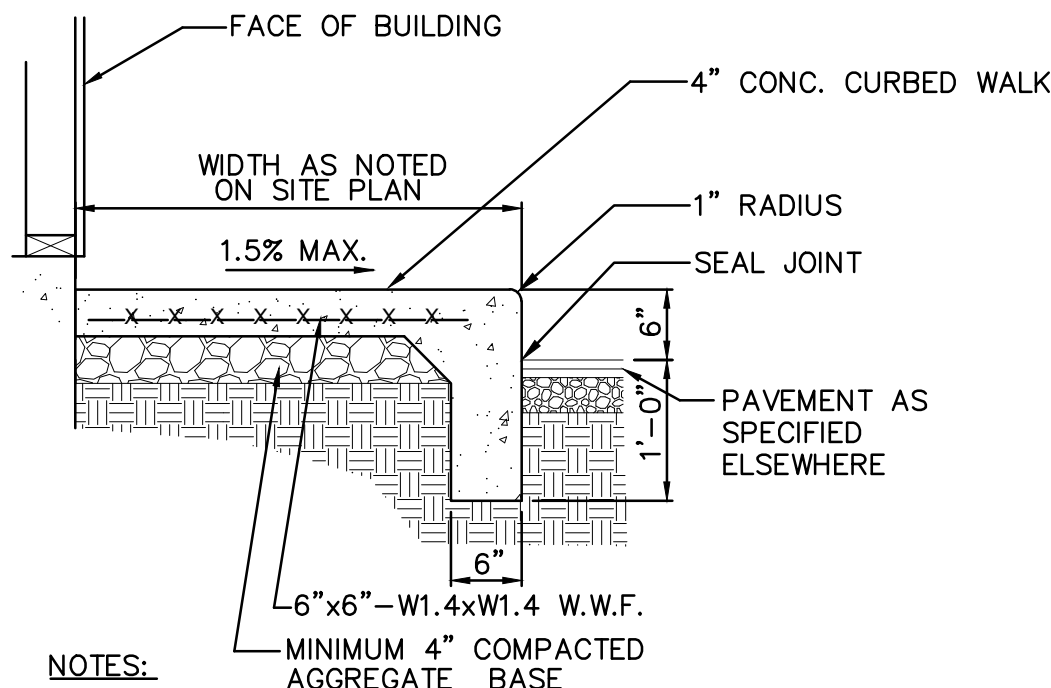
NOTES:

1. APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT. APPLY CONCRETE SEALANT CONFORMING TO ASTM D6690 WHERE PROPOSED CONCRETE MEETS EXISTING CONCRETE.
2. CONCRETE PAVEMENT SHALL HAVE CONTROL JOINTS AT 12'-0" O.C.

TYPICAL CONCRETE PAVEMENT SECTION



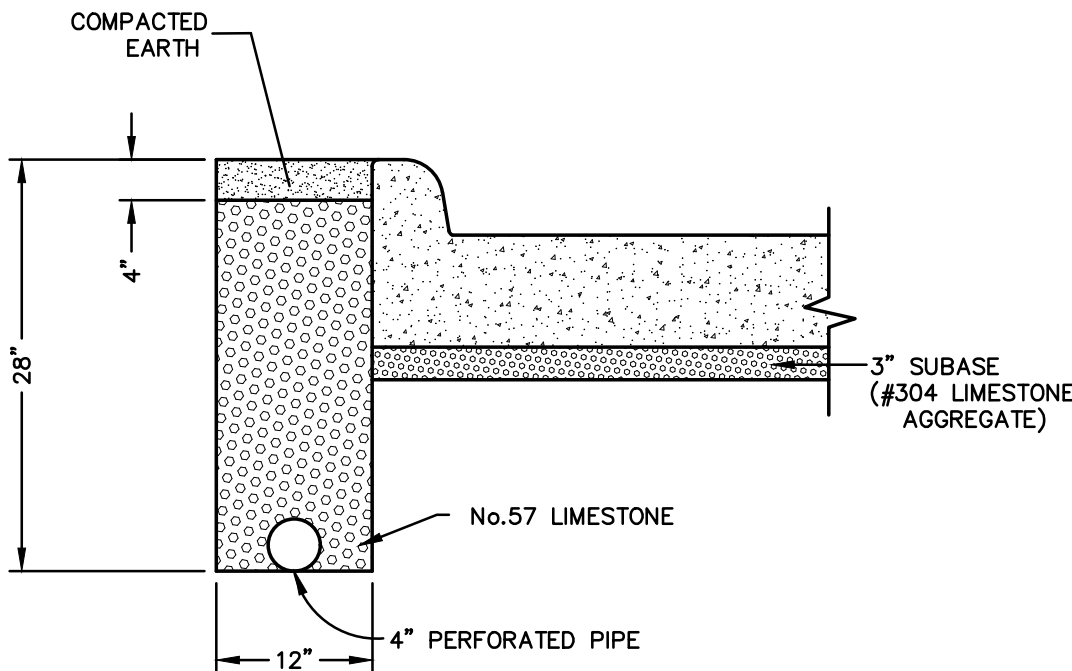
6" CONCRETE CURB DETAIL



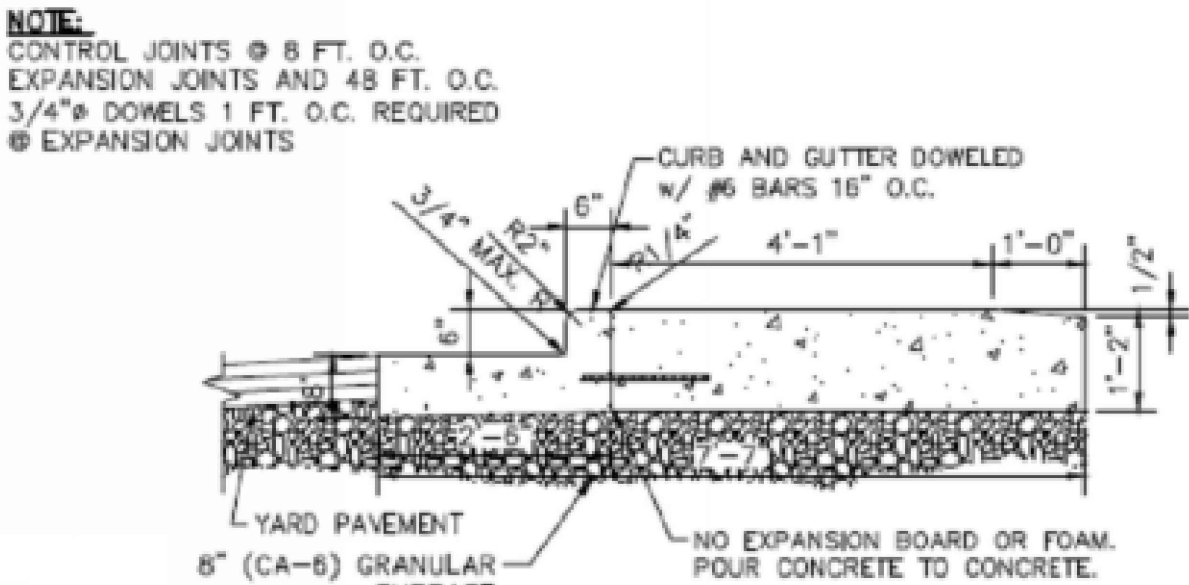
NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

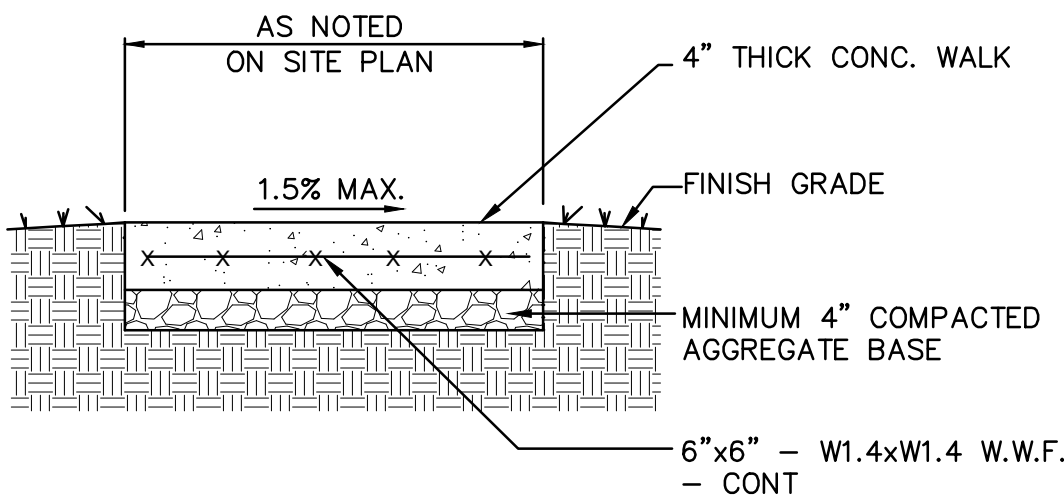
P.C.C. CURBED WALK



UNDERDRAIN DETAIL



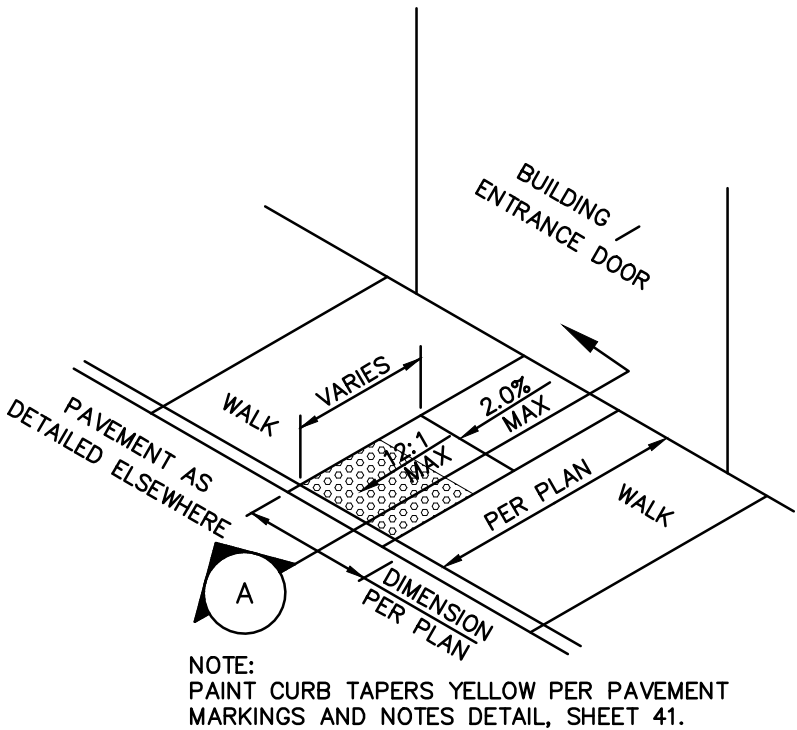
PERIMETER RACKING SLAB AT BUILDING WALL



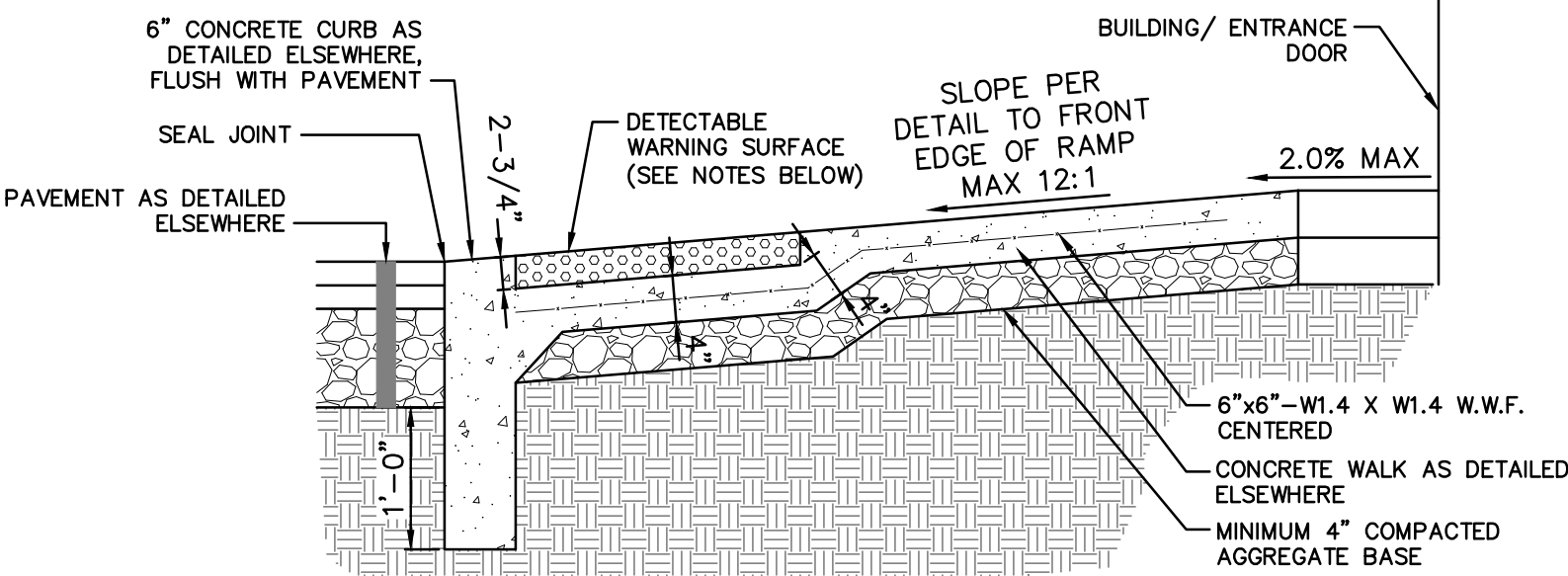
NOTES:

1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.

P.C.C. WALK



PERPENDICULAR RAMP



SECTION A

DETECTABLE WARNINGS

1. ARMOR-TILE TACTILE SYSTEMS DETECTABLE WARNING SURFACE TILE PER ARMOR-TILE SPECIFICATIONS FOR INSTALLATION (WWW.ARMOR-TILE.COM)
2. DETECTABLE WARNING COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

ADA ACCESSIBLE RAMP W/TRUNCATED DOMES

REVISIONS	DATE	DESCRIPTION	BY
	3/22/21	Per OCS/NC/2007 Rev. 1	TEM
	4/8/21	Township Submittal	TEM

THE MARKET AT MEDINA LINE - PASE 1

CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44226 330-725-5960

MISCELLANEOUS PAVEMENT DETAILS

DRAWN BY: TEM
DATE: 11/20/20

CHECKED BY:
DATE:

PROJECT No.
19-186

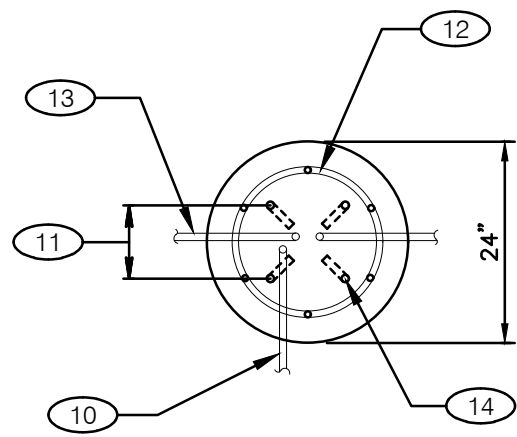
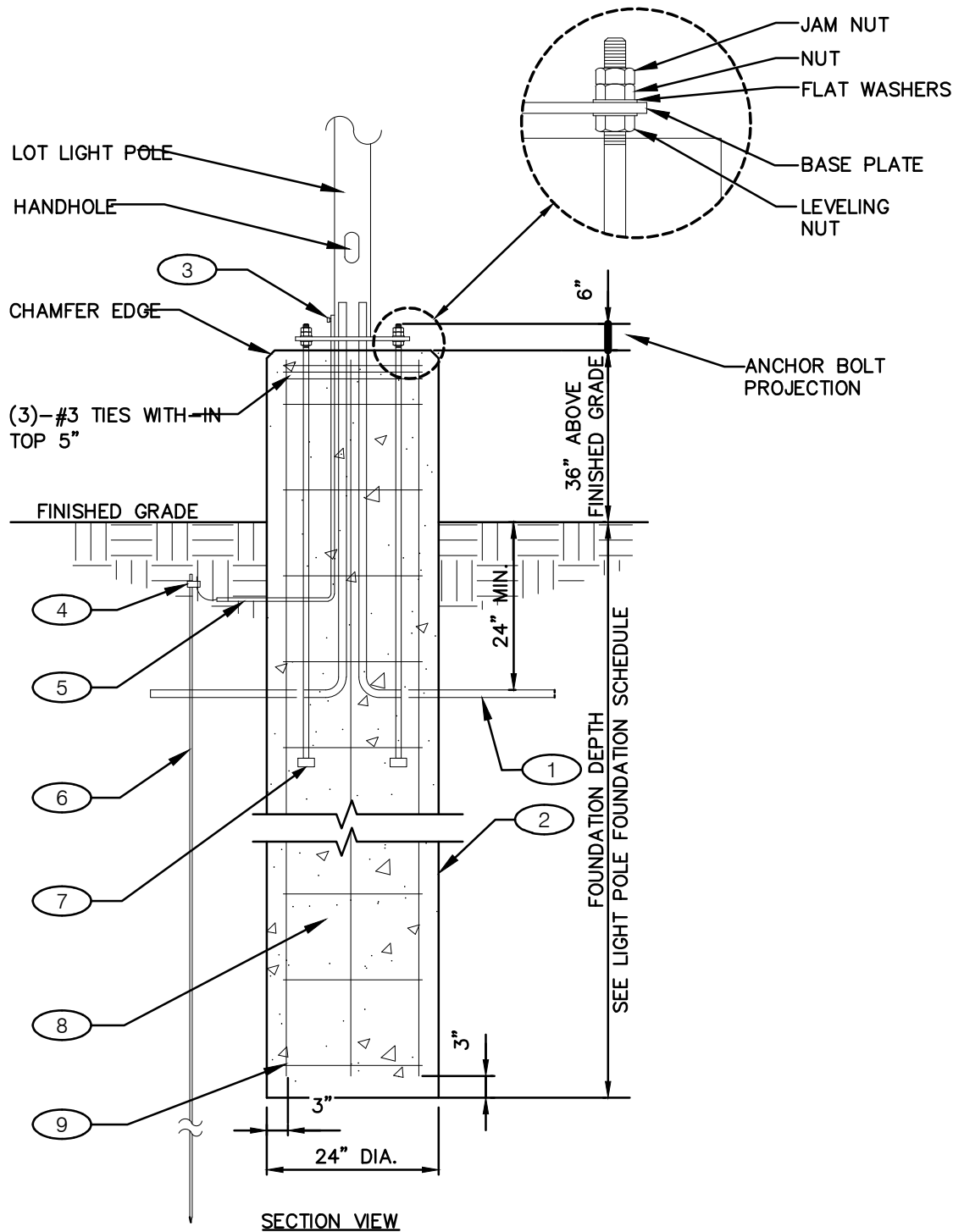
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M:\19186-DETAILS.dwg

SCALE: PLAN-
PROFILE-Horz.
Vert.

SHEET NO.

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KEY NOTES

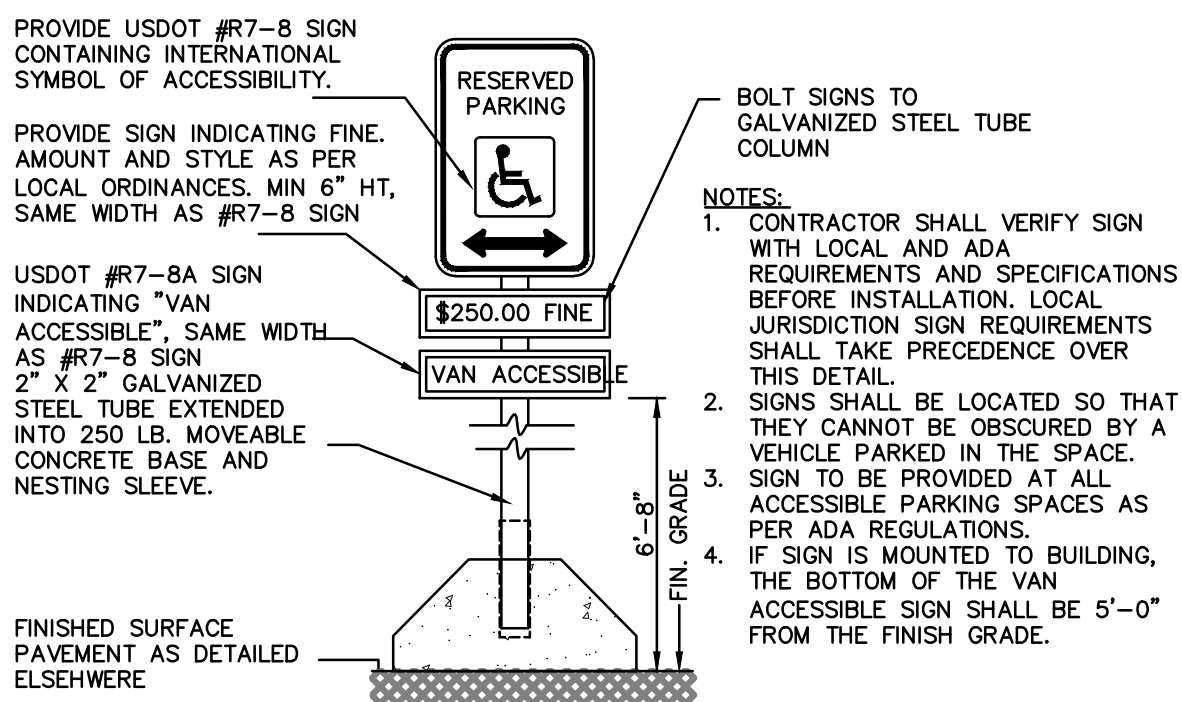
1. 1" CONDUIT OR AS NOTED. EXTEND 3/4" MAX. ABOVE FOUNDATION. (INSTALL ON MIN. 6" SAND BED WITH MIN. 6" SAND COVER BEFORE BACKFILL. CONDUIT SHALL BE FULL WEIGHT SCHEDULE 40 PVC)
2. POURED CONCRETE BASE BY G.C. (24" DIA.) (3,000 PSI, CLASS "C" CONCRETE)
3. PROVIDE GROUND LUG IN BASE BOLTED TO BASE PLATE. GROUND SHALL BE MIN. #6 BARE WIRE.
4. T & B #3 GND. CLAMP
5. 1/2" EMT OR PVC CONDUIT FOR GROUND WIRE
6. GROUNDING ROD.
7. (4) 4'-0" LONG HEADED ANCHOR RODS. COORDINATE ANCHOR ROD DIAMETER W/ POLE SUPPLIER, FURNISHED BY LOT LIGHTING SUPPLIER & INSTALLED BY G.C.
8. #3 TIES SPACED @ 12" O.C.
9. (8)-#5 VERTICAL REBARS
10. CONDUIT STUB OUT FOR GROUND WIRE CONNECTION
11. BOLT PATTERN BY LOT LIGHTING SUPPLIER
12. REBAR CAGE
13. CONDUIT STUB OUT
14. ANCHOR BOLTS

LIGHT POLE FOUNDATION SCHEDULE	
BASIC WIND SPEED (MPH) (ASCE 7-05)	FOUNDATION DEPTH
90 - 100	6'-0"
101 - 120	7'-0"
121 - 140	8'-0"

NOTES:

- WIND LOADS ARE BASED ON EXPOSURE C.
- MAX. POLE HEIGHT = 25' MAX (POLE LENGTH) + 3' (FOUNDATION HEIGHT ABOVE GRADE) = 28' MAX.
- FOUNDATION DESIGN IS BASED ON A MAX. LUMINARY EFFECTIVE PROJECTED AREA (EPA) OF 4.0 S.F.
- LIGHT POLES SHALL MEET FOR ASCE 7-05 ASD DESIGN WIND SPEEDS PROVIDED IN STRUCTURAL PLANS.
- ALL REINFORCING STEEL SHALL DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60.
- CONCRETE ABOVE FINISH GRADE TO BE SMOOTH WITH RUBBED FINISH.
- MINIMUM REQUIRED SOIL PARAMETERS:
 - ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PLF/FT
 - 6" MAX. DEPTH OF DISTURBED TOP SOIL
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF FOUNDATION.

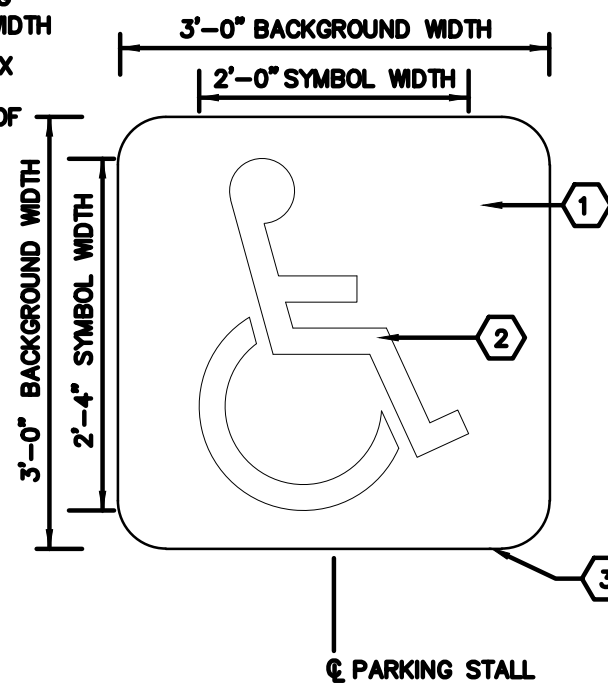
LIGHT POLE FOUNDATION DETAIL



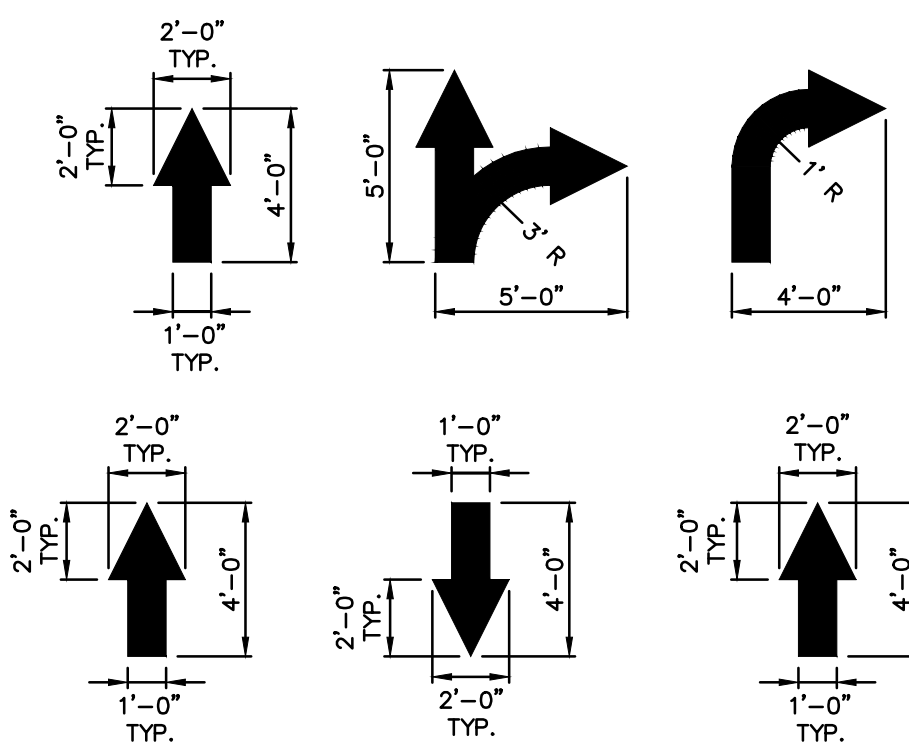
HANDICAPPED PARKING SIGN

KEYED NOTES

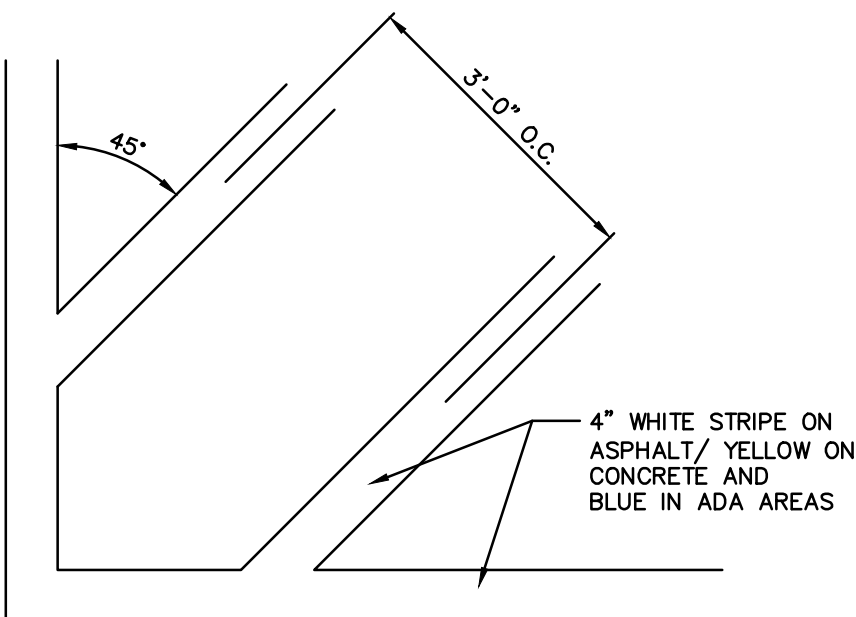
1. PAINT BACKGROUND BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-30 - BLUE
2. PAINT SYMBOL BENJAMIN MOORE M58 SAFETY & ZONE MARKING LATEX M58-01 - WHITE 4" WIDTH
3. BOTTOM EDGE OF SYMBOL BOX SHALL MATCH END OF STALL STRIPE AT DRIVE AISLE END OF STALL.



ADA PAVEMENT SYMBOL



CROSSWALK STRIPING



TRANSVERSE STRIPING

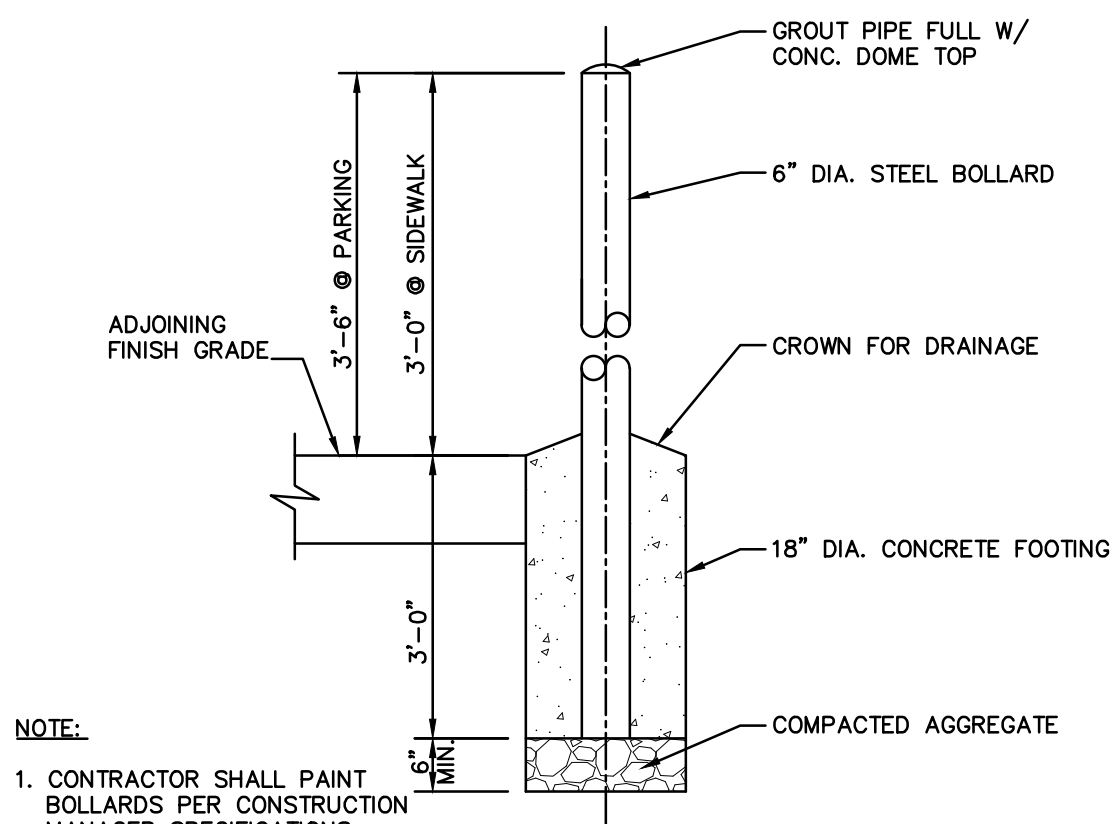
- NOTES:
- ALL PAVEMENT MARKINGS TO BE WHITE PAVEMENT PAINT, UNLESS STATED OTHERWISE.
- MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:
- EXISTING SURFACES WITHOUT ANY SEAL COATING: OIL BASE (ALKYD RESIN TYPE TO MEET FEDERAL SPECIFICATION TTP-1952.
- NEW OR EXISTING SURFACES WITH A TOP COATING OR SEAL COATING (USUALLY WATER BASE FAST DRYING 100% ACRYLIC TYPE): WATER BASE TYPE TO MEET FEDERAL SPECIFICATION TTP-01952. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3723, D1475, D562, AND D711
- PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.
- APPLY 2 COATS WITH STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.
- REFERENCE ODOT SPECIFICATION ITEM 641

PAVEMENT MARKINGS & NOTES

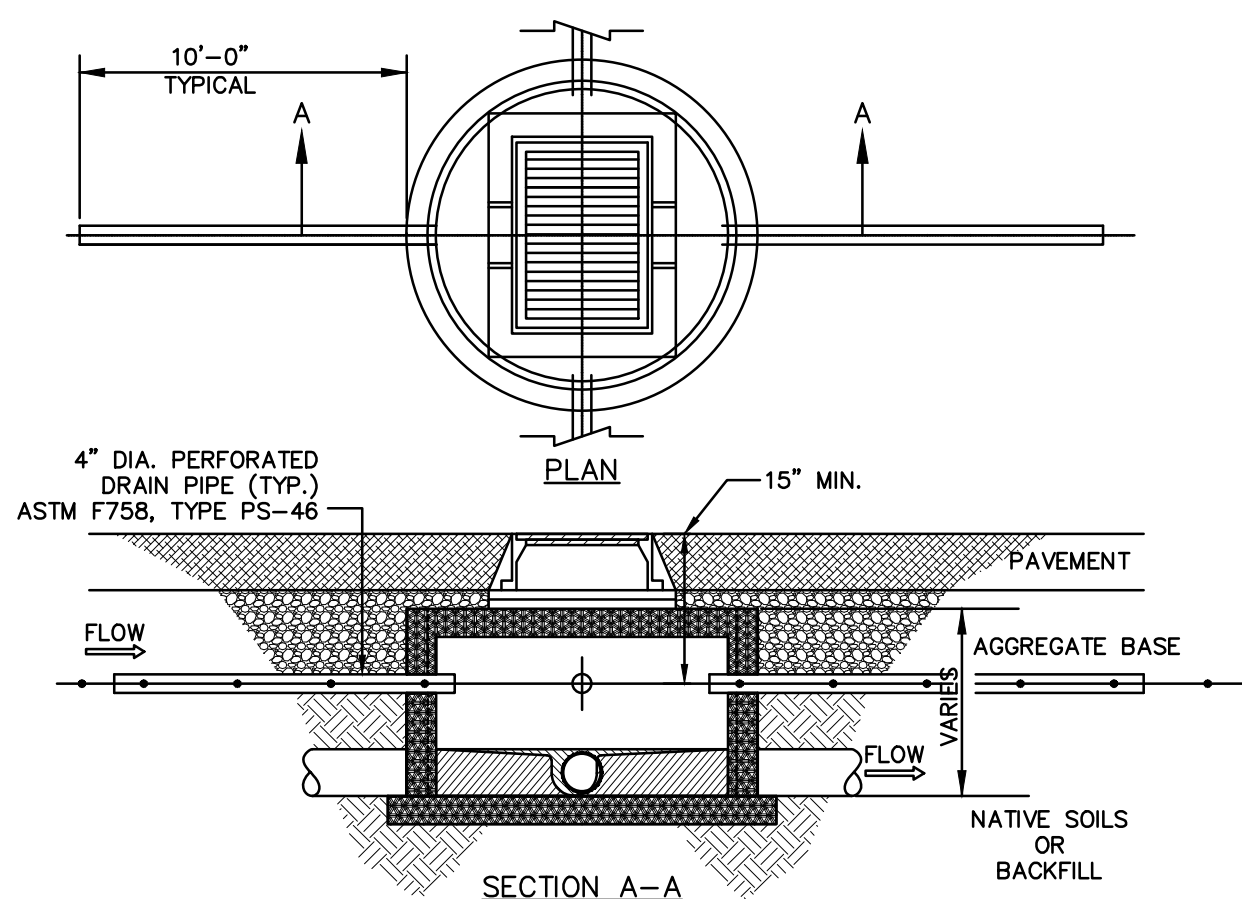
LOT SIZE & MINIMUM OPEN SPACE/PERVIOUS AREA TABLE						
PHASE	LOT/BLOCK	USE DESCRIPTION	ACRES	SQ. FT.	MIN. OPEN SPACE/PERVIOUS ACREAGE	MIN. OPEN SPACE/PERVIOUS SQ. FT.
PHASE 1	S/L 1	MENARDS (INCLUDES RETAIL, WAREHOUSE, OUTDOOR SALES)	22.32	972,085	5.58	243,022
PHASE 1	S/L 2	RETAIL	16.75	729,775	4.19	182,444
PHASE 1	S/L 3	RETAIL	4.23	184,441	1.05	46,110
PHASE 1	S/L 4	RETAIL	2.14	93,434	0.64	28,030
PHASE 1	S/L 5	RETAIL	2.73	118,789	0.82	35,637
PHASE 1	S/L 6	RETAIL	2.06	89,528	0.62	26,858
PHASE 1	S/L 7	RETAIL	2.62	114,183	0.79	34,255
PHASE 1	S/L 8	RETAIL	2.49	108,434	0.75	32,530
PHASE 1	S/L 9	RETAIL	2.11	91,698	0.63	27,509
PHASE 1	S/L 10	RETAIL	2.06	89,717	0.62	26,915
PHASE 1	S/L 11	MEDICAL OFFICE	7.98	347,758	2.39	104,327
PHASE 1	BLOCK 'A'	OPEN SPACE	36.12	1,573,385	35.42	1,542,718
TOTAL PHASE 1			103.61	4,513,227	53.50	2,330,355
PHASE 2	S/L 12	TECH/FLEX	10.36	451,360	3.10	135,408
PHASE 2	S/L 13	TECH/FLEX	10.31	448,991	3.09	134,697
TOTAL PHASE 2			20.67	900,351	6.19	270,105
TOTAL FOR PDD			124.28	5,413,578	59.69(48%)	2,600,460

NOTES:

1. The Final Development Plan for Sublots 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13 (Perimeter PDD Sublots) shall require a minimum open space of 30%.
2. The Final Development Plan for Sublots 1, 2 and 3 (Western Interior PDD Sublots) shall require a minimum open space of 25%.



BOLLARD



FINGER DRAIN DETAIL

REVISIONS	DATE	DESCRIPTION	BY
	3/2/21	Per OCS/MS/2007 Revise	TEM
	4/8/21	Township Submittal	TEM

THE MARKET AT MEDINA LINE - PHASE 1

LOCATED IN

TOWNSHIP OF GRANGER

COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.

CIVIL ENGINEERING and SURVEYING

203 W. LIBERTY ST. MEDINA, OHIO 44226 330-725-5960

MISCELLANEOUS PAVEMENT DETAILS AND NOTES

SHEET TITLE:

DRAWN BY: TEM

DATE: 11/20/20

CHECKED BY:

DATE:

PROJECT No.

19-186

ACAD FILE No.

19186-DETAILS.dwg

SCALE: PLAN-
PROFILE-Hor.
Vert.

SHEET NO.

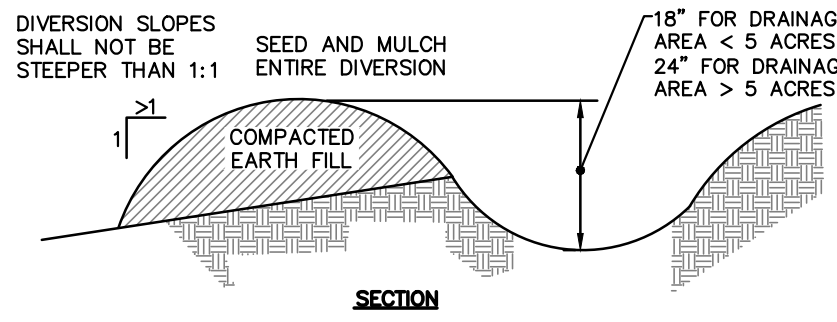
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STORM WATER POLLUTION PREVENTION NOTES

- ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH THE DETAILS AND SPECIFICATIONS OUTLINED IN THE, OHIO DEPARTMENT OF NATURAL RESOURCES MANUAL, "RAINWATER AND LAND DEVELOPMENT."
- ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED PRIOR TO ANY MAJOR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL SIGNIFICANT RAINFALLS. ANY NEEDED REPAIRS SHALL BE DONE IMMEDIATELY. EROSION CONTROL DEVICES TO BE REMOVED AFTER SITE STABILIZED AS DIRECTED BY THE MEDINA COUNTY ENGINEER.
- ALL CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
- SEDIMENT BASINS/TRAPS AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE PERMANENTLY STABILIZED.
- SEED AND MULCH ALL DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE ON ANY PORTION OF THE SITE.
- SEED AND MULCH WITHIN 50' OF ANY STREAM WITHIN 2 DAYS ON ALL INACTIVE DISTURBED AREAS.
- DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 14 DAYS OR GREATER SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS OF THE LAST DISTURBANCE.
- A FULL LOT SEEDING AND MULCHING SHALL BE APPLIED TO ALL BARE AREAS IMMEDIATELY AFTER THE CONSTRUCTION OF STREETS IS COMPLETE.
- INSTALL SILT FENCE AS SHOWN ON THE GRADING PLAN, PRIOR TO AND DURING CONSTRUCTION ACTIVITY.
- EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITY.
- ASSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES, AND ASCERTAIN WHETHER CONTROLS ARE ADEQUATE AND PROPERLY IMPLEMENTED ACCORDING TO THE SCHEDULE OF OPERATIONS OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED.
- ALL SOLID, SANITARY, AND TOXIC WASTES MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- NO EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERMANENT STABILIZATION OF THE ASSOCIATED UPLAND DRAINAGE AREAS AND WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE APPROPRIATE AUTHORITY, UNLESS THEIR REMOVAL IS SPECIFICALLY PROVIDED FOR WITHIN THE SITES APPROVED PLANS.

MAINTENANCE AND INSPECTION NOTES

- INSPECT EROSION AND SEDIMENT CONTROLS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5" OF RAIN PER 24 HOUR PERIOD
- INSPECT DISTURBED AREAS AND STORAGE AREAS FOR POTENTIAL OR EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM, AND INSPECT DISCHARGE LOCATIONS TO ASCERTAIN WHETHER CONTROLS MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.
- INSPECT ENTRANCES AND EXITS OF SITE FOR EVIDENCE OF OFF-SITE TRACKING.
- MAINTAIN RECORDS OF INSPECTIONS AND REPAIR ANY EROSION CONTROL MEASURE THAT ISN'T WORKING AS DESIGNED.



- DIVERSION SHALL BE COMPLETED BY TRAVELING WITH TRACKED EARTH-MOVING EQUIPMENT.
- DIVERSIONS SHALL NOT BE BREACHED OR LOWERED TO ALLOW CONSTRUCTION TRAFFIC TO CROSS; INSTEAD THE TOP WIDTH MAY BE MADE WIDER AND SIDE SLOPES MADE FLATTER THAN SPECIFIED ABOVE.
- DIVERSIONS SHALL BE STABILIZED WITH VEGETATION AND CHECK DAMS OR THE FOLLOWING TREATMENTS.

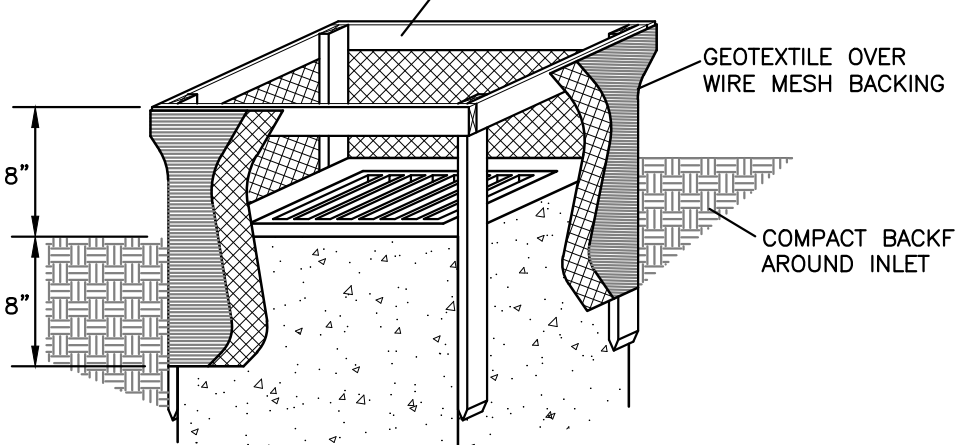
TEMPORARY DIVERSION STABILIZATION TREATMENT			
DIVERSION SLOPE	< 2 ACRES	2-5 ACRES	5-10 ACRES
0-3%	SEE AND STRAW	SEE AND STRAW	SEE AND STRAW
3-5%	SEE AND STRAW	SEE AND STRAW	MATTING
5-8%	SEE AND STRAW	MATTING	
8-20%	SEE AND STRAW	MATTING	ENGINEERED

NOTE: DIVERSIONS WITH STEEPER SLOPES OR GREATER DRAINAGE AREAS ARE BEYOND THE SCOPE OF THIS STANDARD AND MUST BE DESIGNED FOR STABILITY.
SEED, STRAW AND MATTING USED SHALL MEET THE SPECIFICATIONS FOR TEMPORARY SEEDING, MULCHING AND MATTING.

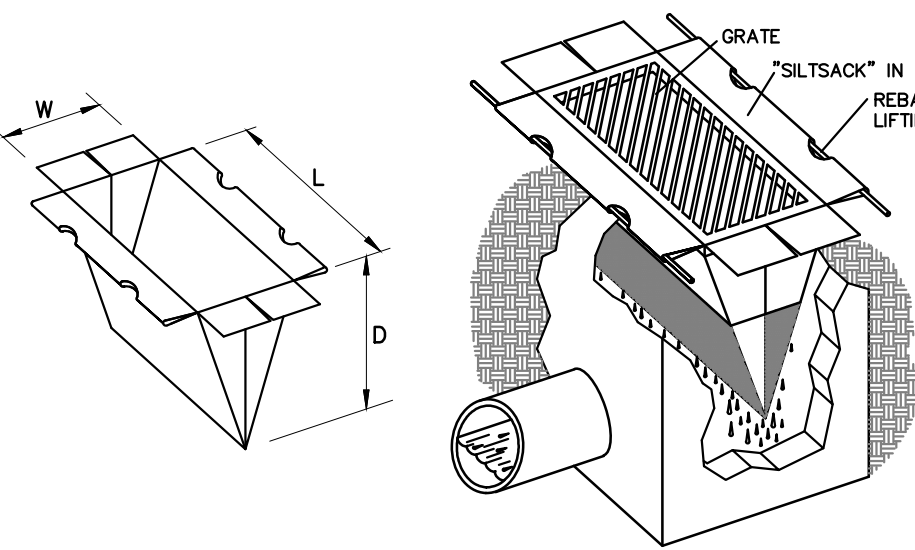
TEMPORARY DIVERSION

CONSTRUCTION SPECIFICATIONS

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER. THE 2" X 4" POSTS SHALL BE DRIVEN ONE FOOT INTO THE GROUND AT THE FOUR CORNERS OF THE INLET AND THE TOP PORTION OF THE 2" X 4" FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITHIN UNBOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.



INLET PROTECTION IN SWALES, DITCH LINES, OR YARD INLETS

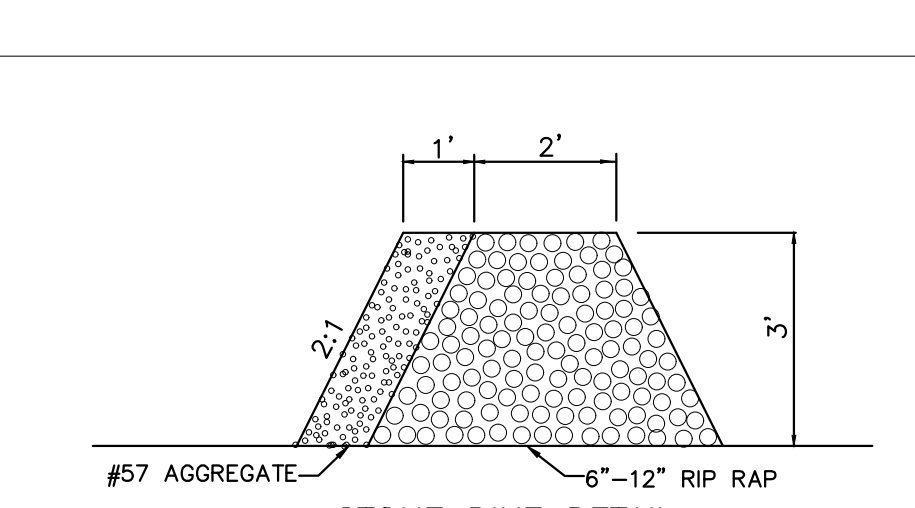


"SILTSACK" TO BE USED TO KEEP CATCH BASINS FREE OF SILT DURING CONSTRUCTION. SILTSACK SHALL BE INSTALLED BY REMOVING GRATE CASTING, INSERTING SILTSACK, REPLACING GRATE TO HOLD IN PLACE. CONTRACTOR TO CHECK SILTSACK AS DIRECTED BY COUNTY ENGINEER OR MEDINA COUNTY SOIL & WATER CONSERVATION DISTRICT, AND REMOVE FILLED SILTSACK WITH FRONT LOADER OR OTHER EQUIPMENT, TO CLEAN AND REUSE, OR DISCARD AND REPLACE AS NECESSARY.

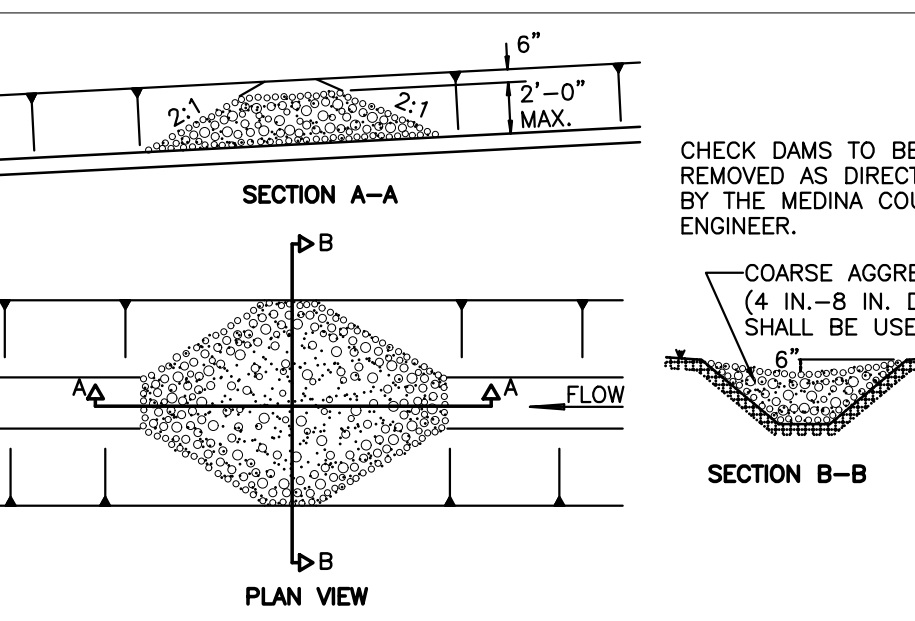
PERMEABILITY - REGULAR FLOW = 40 gal./min./sq. ft.
HI-FLOW = 200 gal./min./sq. ft.

"SILTSACK" AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

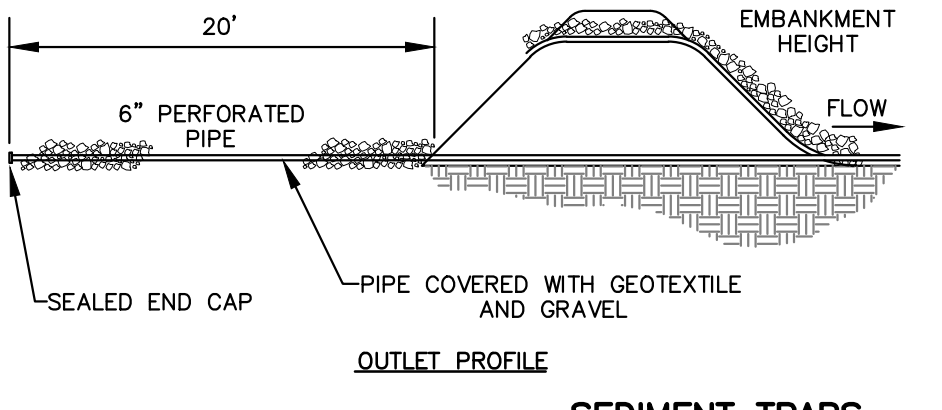
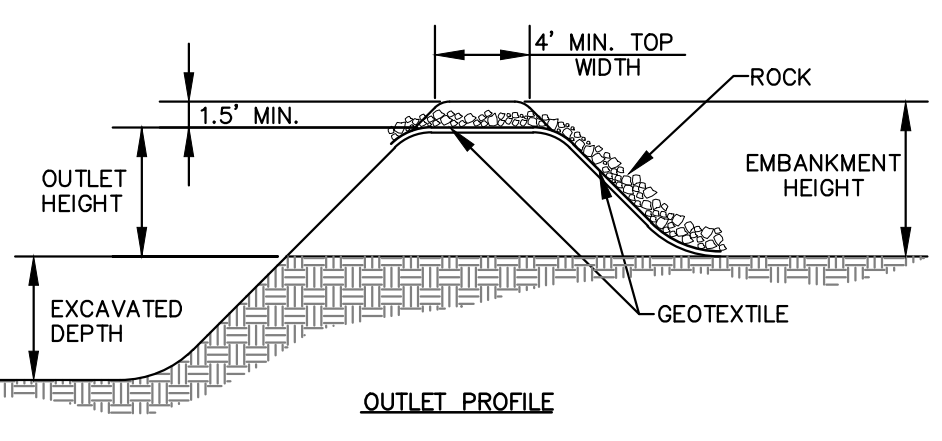
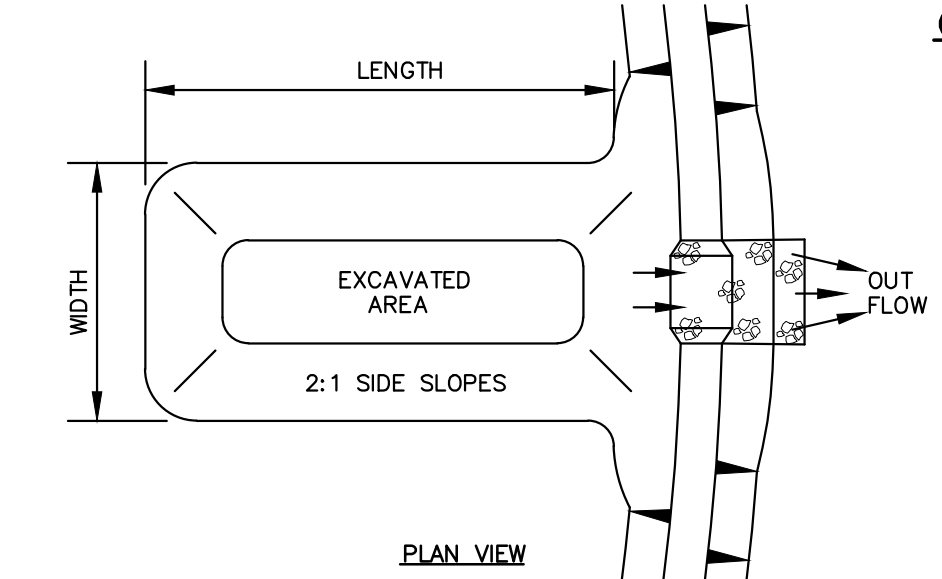
SILTSACK DETAIL



STONE DIKE DETAIL



TYPICAL STONE CHECK DAM DETAIL

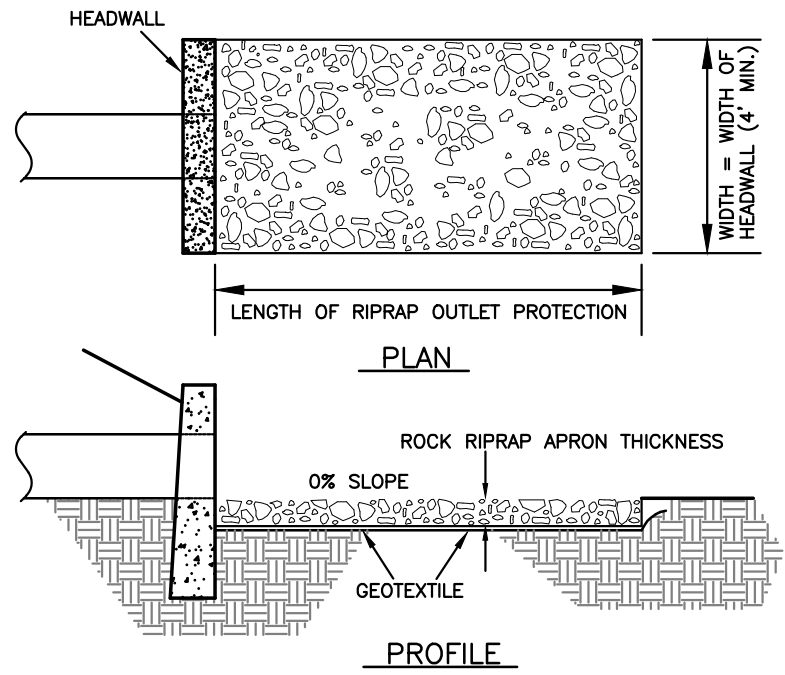


SEDIMENT TRAPS

SPECIFICATIONS

- THE SUBGRADE FOR THE FILTER AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE PLANS.
- THE RIPRAP SHALL CONFORM TO THE GRADING LIMITS AS SHOWN ON THE PLAN.
- GEOTEXTILE SHALL BE WOVEN OR NONWOVEN MONOFILAMENT YARN AND SHALL MEET THE FOLLOWING:
THICKNESS 20-60 MILS.
GRAB STRENGTH 90-120 LBS.
ASTM D-177 and ASTM D-1582
- RIPRAP MAY BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE GEOTEXTILE.

TYPE OF ROCK OR RIPRAP	SIZE OF ROCK	
	50% BY WEIGHT	85% BY WEIGHT
TYPE D	> 6 IN.	3 - 12 IN.
TYPE C	> 12 IN.	6 - 18 IN.
TYPE B	> 18 IN.	12 - 24 IN.
TYPE A	> 24 IN.	18 - 30 IN.



ROCK CHANNEL PROTECTION

CONSTRUCTION SPECIFICATIONS

- SEDIMENT TRAPS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT.
- FILL MATERIAL USED FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER MATERIAL OR OBJECTABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVELING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF THE EMBANKMENT SHALL BE 5 FT. AS MEASURED FROM THE SURROUNDING GROUND.
- OUTER CUT-AND-FILL SLOPES SHALL BE 2:1 OR FLATTER. SLOPES INSIDE SEDIMENT TRAP SHALL BE 2:1.
- DIKES DIRECTING WATER TO THE TRAP SHALL BE HIGHER THAN THE HEIGHT OF THE EMBANKMENT.
- TEMPORARY SEEDING SHALL BE ESTABLISHED ON ALL NON-SUBMERGED AREAS OF THE SEDIMENT TRAP.
- THE STORAGE VOLUME SHALL BE ACHIEVED TO THE DIMENSIONS SHOWN IN THE PLANS TO ACHIEVE 67 C.Y. OF STORAGE VOLUME BELOW THE CREST OF THE OUTLET FOR EVERY ACRE OF CONTRIBUTING DRAINAGE AREA.
- THE OUTLET SPILLWAY SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN THE PLANS.
- GEOTEXTILE SHALL BE PLACED OVER THE BOTTOM AND SLOPES OF THE OUTLET SPILLWAY. GEOTEXTILE SHALL CONTINUE DOWNSTREAM OF THE EMBANKMENT TO FORM AN APRON ON THE SURROUNDING GROUND. TO PREVENT RUNOFF FROM FLOWING UNDER THE GEOTEXTILE, SECTIONS PLACED NEAREST THE FRONT SHALL OVERLAP FOLLOWING. SECTIONS OF GEOTEXTILE SHALL OVERLAP AT LEAST 2 FT.
- ROCK USED IN THE OUTLET SPILLWAY SHALL BE PLACED 1 FT. THICK ON THE GEOTEXTILE. THE ROCK SHALL BE BETWEEN TYPE C AND TYPE D ROCK WHERE D50 IS ABOUT 8 IN.
- SEDIMENT SHALL BE REMOVED AND THE SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSION WHEN THE SEDIMENT HAS FILLED ONE-HALF THE POND'S ORIGINAL DEPTH. REMOVED SEDIMENT SHALL BE SPREAD IN A SUITABLE AREA AND STABILIZED SO IT WILL NOT ERODE.
- THE STRUCTURE AND ACCUMULATED SEDIMENT SHALL BE PERMANENTLY STABILIZED WHEN THE DRAINAGE AREA HAS BEEN STABILIZED.

PERMANENT SEEDING MIXTURES		SEEDING RATES IN POUNDS PER ACRE PER 1000 SQ. FT.	
KIND OF SEED	NOTES:	SEEDING RATES IN POUNDS PER ACRE PER 1000 SQ. FT.	SEEDING RATES IN POUNDS PER ACRE PER 1000 SQ. FT.
I. GENERAL USE			
A. CREEPING RED FESCUE and DOMESTIC RYEGRASS and KENTUCKY BLUEGRASS	FOR CLOSE MOWING & FOR WATERWAYS WITH 2.0 FT/SEC VELOCITY	20-40	1/2-1
B. TALL FESCUE		10-20	1/4-1/2
		20-40	1/2-1
C. TURF-TYPE (DWARF) FESCUE		90	2 1/4
II. STEEP BANKS OR CUT SLOPES			
A. TALL FESCUE		40-50	1-1 1/4
B. CROWN VETCH	DO NOT SEED LATER THAN AUGUST	10-20	1/4-1/2
TALL FESCUE		20-30	1/2-3/4
C. FLAT PEA and TALL FESCUE	DO NOT SEED LATER THAN AUGUST	20-25	1/2-3/4
		20-30	1/2-3/4
III. ROAD DITCHES AND SWALES			
A. TALL FESCUE		40-50	1-1 1/4
B. DWARF FESCUE		90	2 1/4
C. KENTUCKY BLUEGRASS		5	0.1
IV. LAWNS			
A. KENTUCKY BLUEGRASS and PERENNIAL RYEGRASS		100-120	2
B. KENTUCKY BLUEGRASS and CREEPING RED FESCUE	FOR SHADED AREAS	100-120	2
		100-120	1 1/2

TEMPORARY SEEDINGS & SEEDING RATES			
SEEDING DATES	SPECIES	RATE 1,000 SQ. FT.	RATE PER ACRE
MARCH 1st to AUGUST 15th	OATS	3 POUNDS	128 (4 BUSHEL)
	TALL FESCUE	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
PERENNIAL RYEGRASS	PERENNIAL RYEGRASS	1 POUND	40 POUNDS
	TALL FESCUE	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
ANNUAL RYEGRASS	ANNUAL RYEGRASS	1.25 POUNDS	55 POUNDS
	PERENNIAL RYEGRASS	3.25 POUNDS	142 POUNDS
	CREEPING RED FESCUE	0.4 POUND	17 POUNDS
KENTUCKY BLUEGRASS	KENTUCKY BLUEGRASS	0.4 POUND	17 POUNDS
	PERENNIAL RYEGRASS	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
NOVEMBER 1st to FEBRUARY 29th	RYE	3 POUND	112 (2 BUSHEL)
	TALL FESCUE	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
WHEAT	WHEAT	3 POUND	120 (2 BUSHEL)
	TALL FESCUE	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
PERENNIAL RYEGRASS	PERENNIAL RYEGRASS	1 POUND	40 POUNDS
	TALL FESCUE	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS
ANNUAL RYEGRASS	ANNUAL RYEGRASS	1.25 POUNDS	40 POUNDS
	PERENNIAL RYEGRASS	3.25 POUNDS	40 POUNDS
	CREEPING RED FESCUE	0.4 POUND	40 POUNDS
KENTUCKY BLUEGRASS	KENTUCKY BLUEGRASS	0.4 POUND	40 POUNDS
	PERENNIAL RYEGRASS	1 POUND	40 POUNDS
	ANNUAL RYEGRASS	1 POUND	40 POUNDS

NOTE: Other approved seed species may be substituted.

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEED WITHIN 7 DAYS AFTER GRADING.
- THE SEEDING SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS-TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
- SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

SPECIFICATIONS FOR SILT FENCE

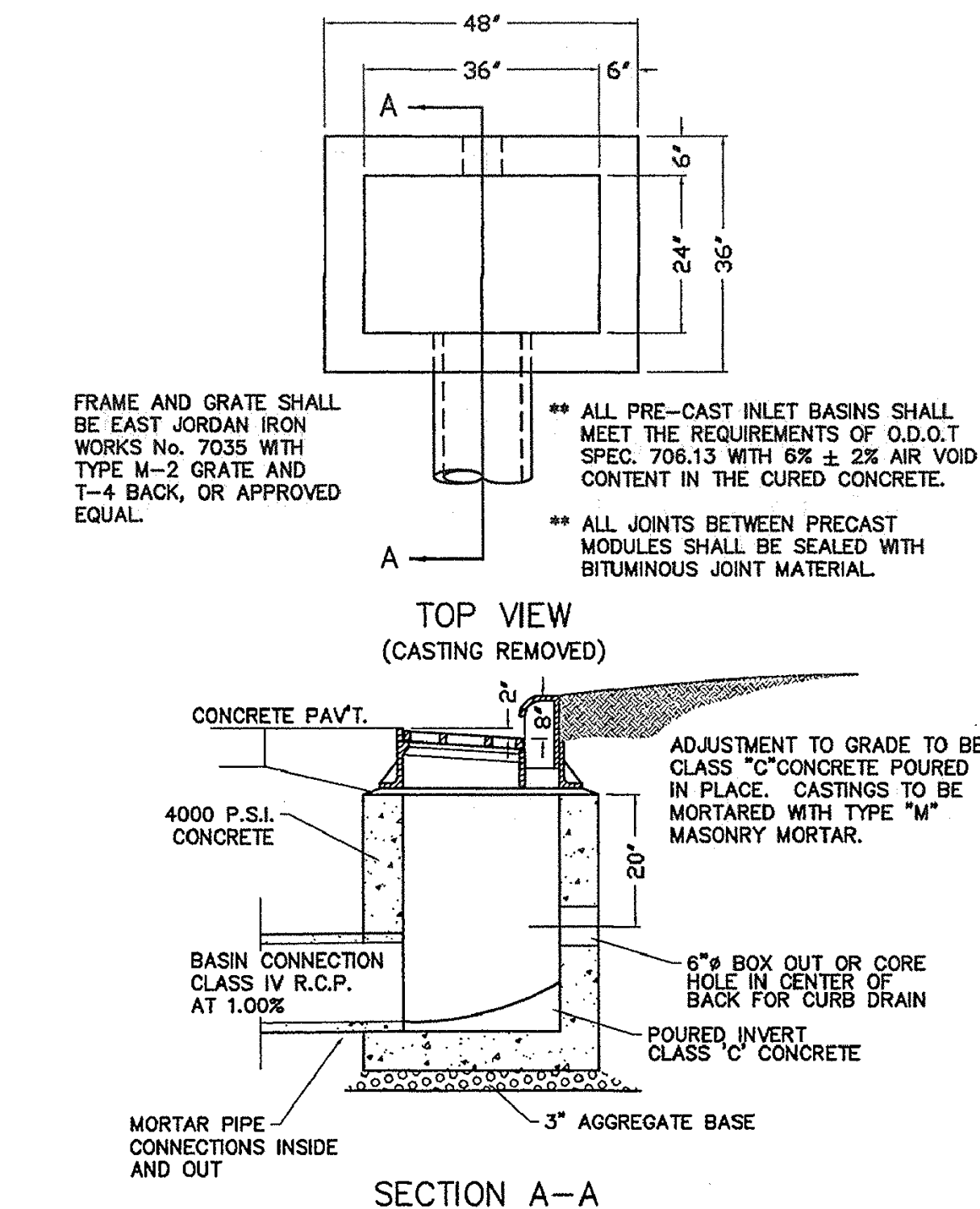
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS AND IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATIONS.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE SILT FENCE SHALL BE PLACED SO THAT 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH AND THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED; 2) ACCUMULATED SEDIMENT SHALL BE REMOVED; OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- FENCE POSTS SHALL BE A MINIMUM OF 32 INCHES IN LENGTH MADE OF 2-BY-2 IN

STORM SEWER NOTES

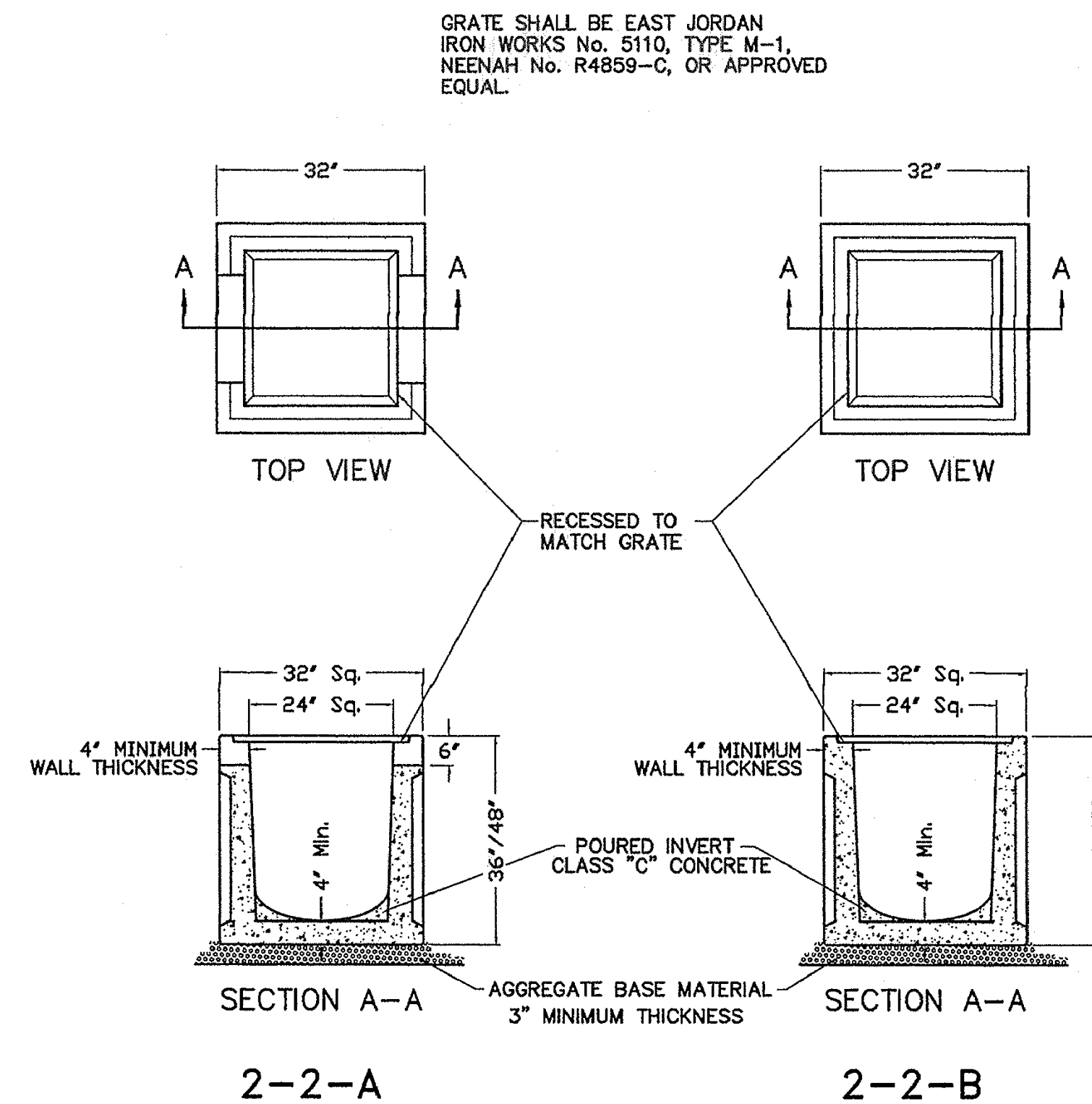
- STORM SEWER PIPE MATERIAL SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLANS AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

MATERIAL	TYPE	SPECIFICATIONS	SUGG. MFR.	ACCEPTABLE AREAS OF USE
REINFORCED CONCRETE PIPE (RCP)	CLASS IV	ASTM C-655, ODOT 706.02	---	ANY LOCATION
REINFORCED CONCRETE PIPE (RCP)	CLASS III	ASTM C-655, ODOT 706.02	---	OUTSIDE OF PAVED AREAS
HIGH DENSITY POLYETHYLENE (HDPE) PIPE	SMOOTH-LINED CORRUGATED (PERFORATED FOR DITCH ENCLOSURES)	AASHTO M294 (TYPE S), ODOT 707.33	HANCOR HI-Q "SURE-LOK", ADVANCED DRAINAGE SYSTEMS w/ PREMIUM COUPLERS OR APPROVED EQUAL.	OUTSIDE OF PAVED AREAS WHERE COVER IS 12 FEET OR LESS. PIPE WITH 6 FEET OR MORE OF COVER REQUIRE TELEVISION INSPECTION. SEE MEDINA COUNTY ENGINEER SUPPLEMENTAL SPECIFICATIONS.
HIGH DENSITY POLYETHYLENE (HDPE) PIPE	SMOOTH-LINED CORRUGATED (PERFORATED)	AASHTO M294 ODOT 707.33	HANCOR, ADVANCED DRAINAGE SYSTEMS, OR APPROVED EQUAL.	4" Ø UNDERDRAINS

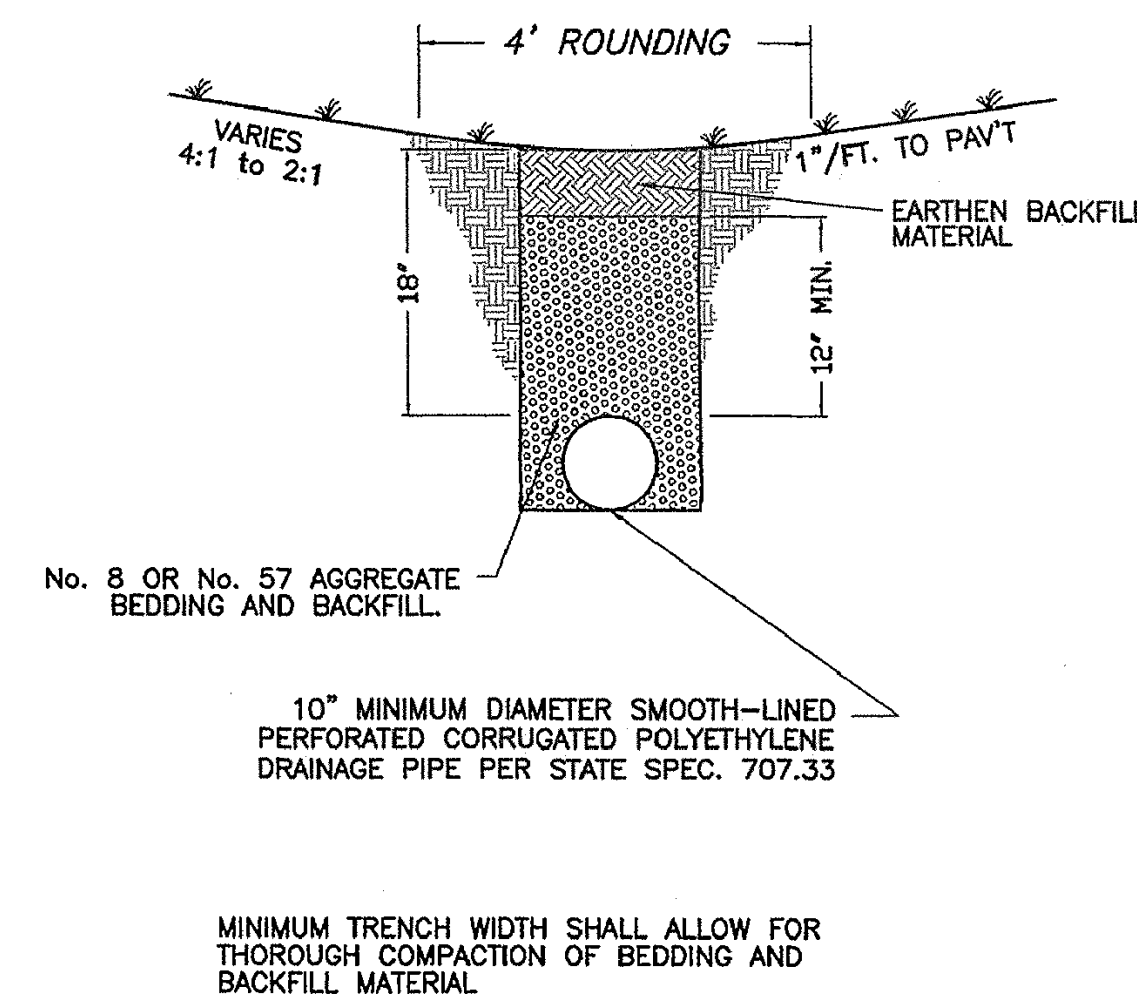
- ALL STORM SEWER PIPE UNDER THE PROPOSED ROAD PAVEMENT SHALL BE REINFORCED CONCRETE PIPE (R.C.P.) CLASS IV.
- ALL INLET BASIN CONNECTIONS SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS IV OF THE SIZE SHOWN ON THE PLANS AND INSTALLED AT A MINIMUM GRADE OF 1.00%.
- ALL STORM SEWER PIPE IS TO BE SAW CUT, NOT BROKEN.
- ALL JOINTS BETWEEN SECTIONS OF REINFORCED CONCRETE PIPE (RCP) SHALL BE SEALED WITH BITUMINOUS JOINT MATERIAL.
- ALL STORM SEWER PIPE SHALL BE DESIGNED AND LAID WITH A MINIMUM SLOPE OF 0.5%.
- THE INSTALLATION OF STORM SEWERS AND CULVERTS SHALL BE IN ACCORDANCE O.D.O.T. ITEM 603 SPECIFICATIONS.
- ALL ROCK CHANNEL PROTECTION SHALL BE PER O.D.O.T. ITEM 601.09, AS DIMENSIONED ON THE PLANS.
- ALL STORM CONNECTIONS AND LATERALS SHALL HAVE A 6" MINIMUM GRANULAR BEDDING AND BACKFILL, (CLASS B).
- ALL MANHOLES SHALL BE SET TO GRADE PER THE CONSTRUCTION PLANS, BY THE SEWER CONTRACTOR AT THE TIME OF INSTALLATION. THE FINAL ADJUSTMENT OF THE CASTINGS SHALL BE THE RESPONSIBILITY OF THE SEWER CONTRACTOR AND THE FINAL INSPECTION, APPROVAL AND ACCEPTANCE OF THE SEWER SYSTEM BY THE MEDINA COUNTY ENGINEERING DEPARTMENT SHALL BE CONTINGENT UPON THIS FINAL ADJUSTMENT OF THE CASTINGS.
 - HEADWALLS SHALL CONFORM TO OHIO DEPARTMENT OF TRANSPORTATION DETAILS AND SPECIFICATIONS.
 - HEADWALLS SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE INSTALLATION OF THE AFFECTED PIPE.
 - WHEN PRECAST HEADWALLS ARE USED, PIPES SHALL BE MORTARED TO THE HEADWALLS.
 - CHAMFER ALL EXPOSED EDGES OF POURED HEADWALLS.
- ALL STORM MANHOLES AND INLET BASINS SHALL HAVE POURED INVERTS.
- ALL STORM SEWER PIPE CONNECTING A STREET INLET BASIN TO A STORM SEWER MAIN LINE MANHOLE SHALL BE REINFORCED CONCRETE PIPE (R.C.P.) CLASS III.



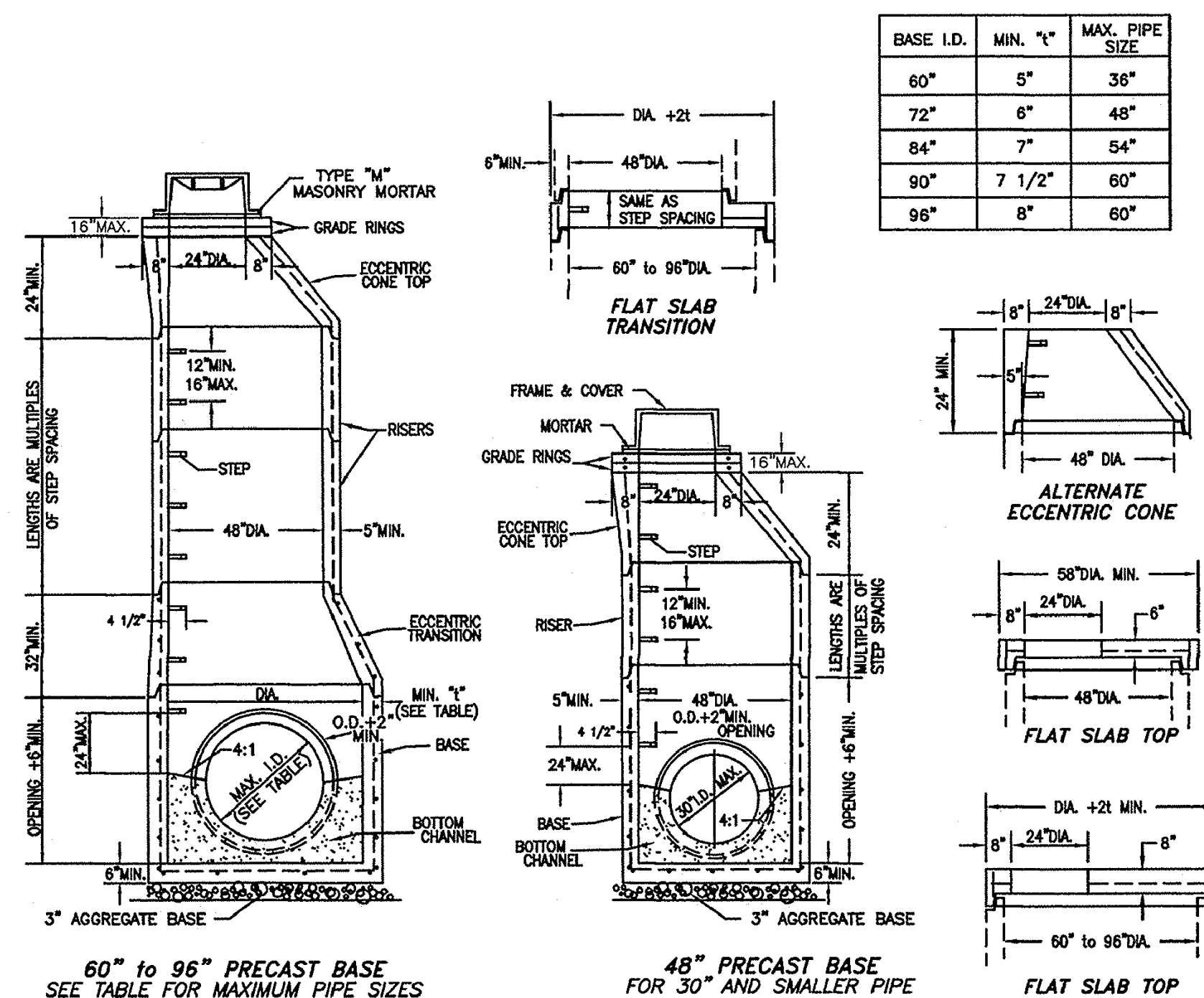
REINFORCED CONCRETE CURB INLET BASIN



MODIFIED PRECAST YARD BASINS



SPECIAL RESIDENTIAL DITCH ENCLOSURE



REINFORCED PRECAST CONCRETE MANHOLES

NOTES

GENERAL: WITH NORMAL SOIL AND SITE CONDITIONS THIS STANDARD PRECAST MANHOLE MAY BE USED FOR ANY REQUIRED MANHOLE DEPTH.

SECTIONS OF THE PRECAST MANHOLE SHALL BE ASSEMBLED WITH EITHER ALL TOP OR ALL GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING.

TOP AND TRANSITION (OR REDUCER) SECTIONS MAY BE EITHER ECCENTRIC CONE OR FLAT SLAB.

BASES FOR NUMBER 3 MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISER. OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE CONCRETE PRE-POURED AT PLANT OR BY FIELD CONSTRUCTION AS SHOWN ON ODOT MH-1 AND MH-2.

OPENINGS IN RISER SECTIONS FOR 18" AND SMALLER INLET PIPES MAY BE PREFABRICATED OR CUT IN THE FIELD PROVIDED THE SIDES OF THE PIPE AT THE SPRINGLINE DO NOT PROJECT INTO THE MANHOLE.

JOINT SEAL BETWEEN PRECAST MANHOLE SECTIONS SHALL BE EITHER BITUMINOUS PIPE JOINT FILLER PER ODOT SPEC. 706.10 OR RESILIENT AND FLEXIBLE GASKETS PER ODOT SPEC. 706.11.

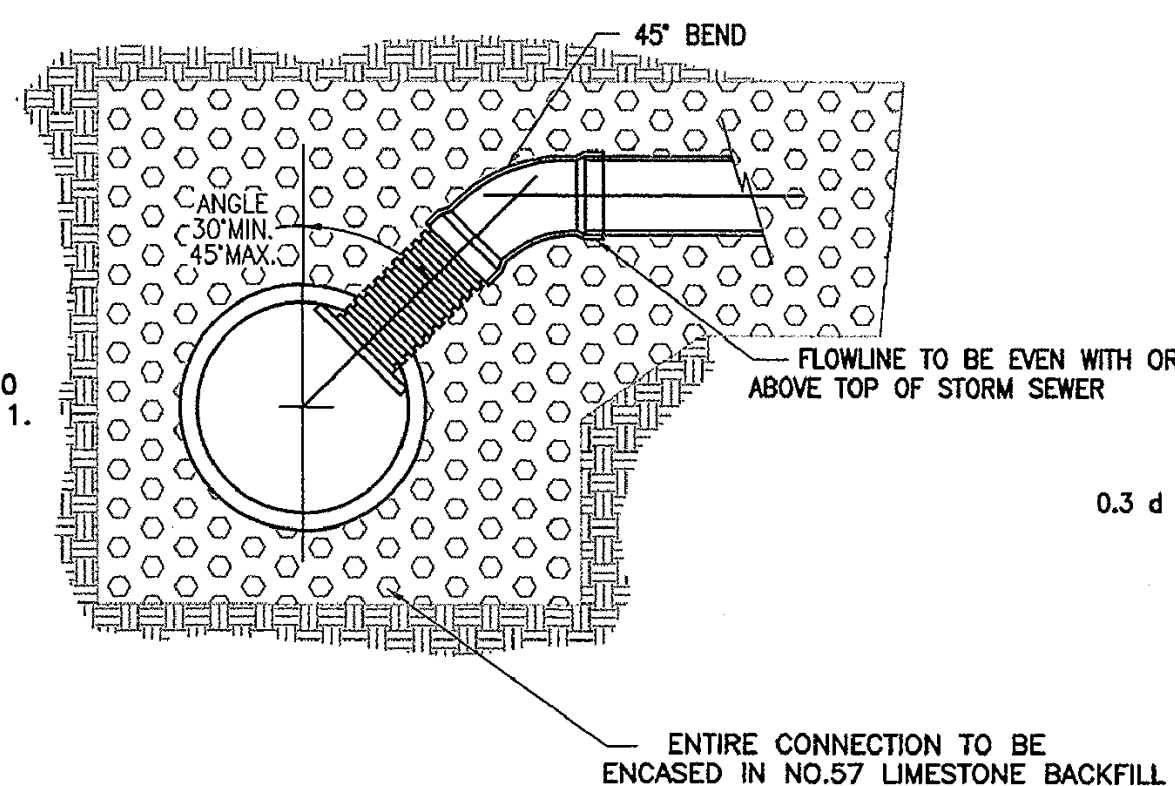
MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH THE REQUIREMENTS OF ODOT SPEC. 706.13.

NOTES

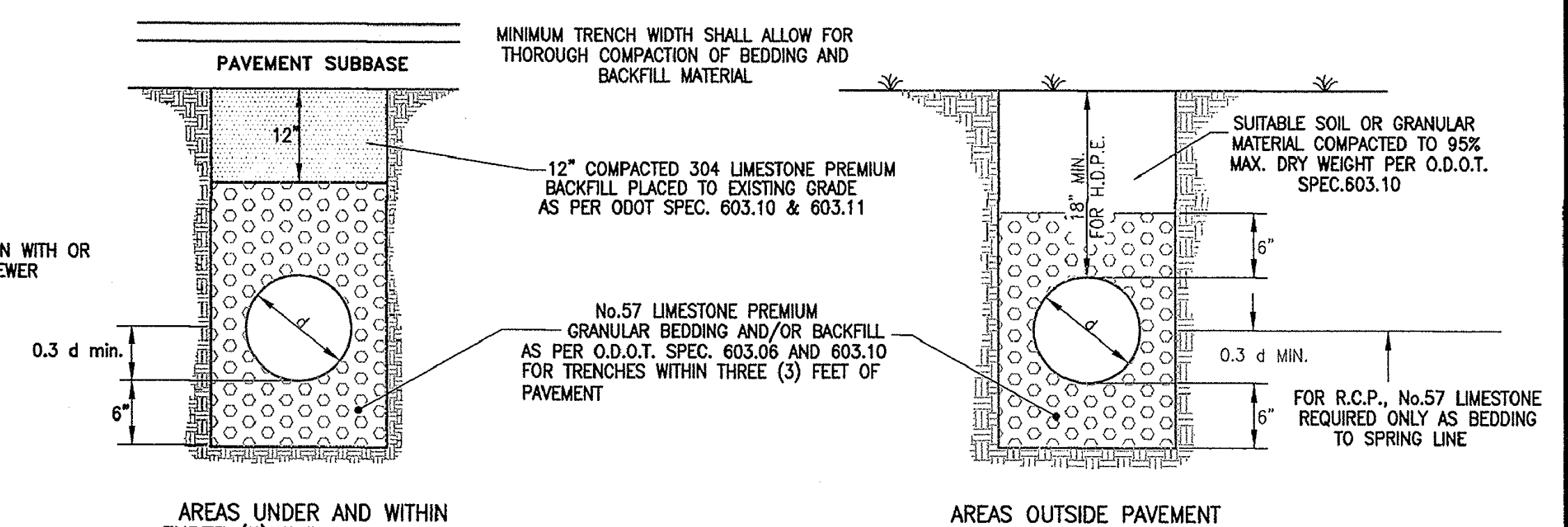
STORM SEWER WYE OR TEE CONNECTIONS INTO MAINLINE PIPE SHALL BE FACTORY MADE. IN THE EVENT WYE OR TEE CONNECTIONS HAVE TO BE INSTALLED IN THE FIELD, THE MAINLINE STORM SEWER SHALL BE CORED AND A RUBBER BOOT INSTALLED.

STORM SEWER HOUSE CONNECTIONS SHALL BE 6" ACRILONITRILE BUTADIENE STYRENE (ASTM-2751, 200 PSI PIPE STIFFNESS) WITH CHEMICALLY WELDED JOINTS USING STANDARD ABS COUPLINGS (ASTM D-2680), OR THE PIPE MAY BE POLYVINYL CHLORIDE (ASTM D-3034, SDR-35) WITH COMPRESSION TYPE JOINTS (ASTM D-3212).

THE CONNECTIONS SHALL BE LAID AT A MINIMUM SLOPE OF 1.00% AND CARRIED TO A POINT 12' BEYOND THE PROPERTY LINE. A 4"x4" TREATED POST SHALL BE SET TO MARK THE END OF THE CONNECTION.



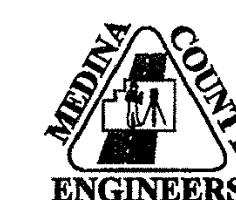
STORM SEWER CONNECTION



TRENCHES

OFFICE OF THE
MEDINA COUNTY
ENGINEER
MICHAEL J. SALAY, P.E., P.S.

MEDINA COUNTY ENGINEERING CENTER
791 W. SMITH ROAD
P.O. BOX 825
MEDINA, OHIO 44258-0825
PH. (330) 723-9561

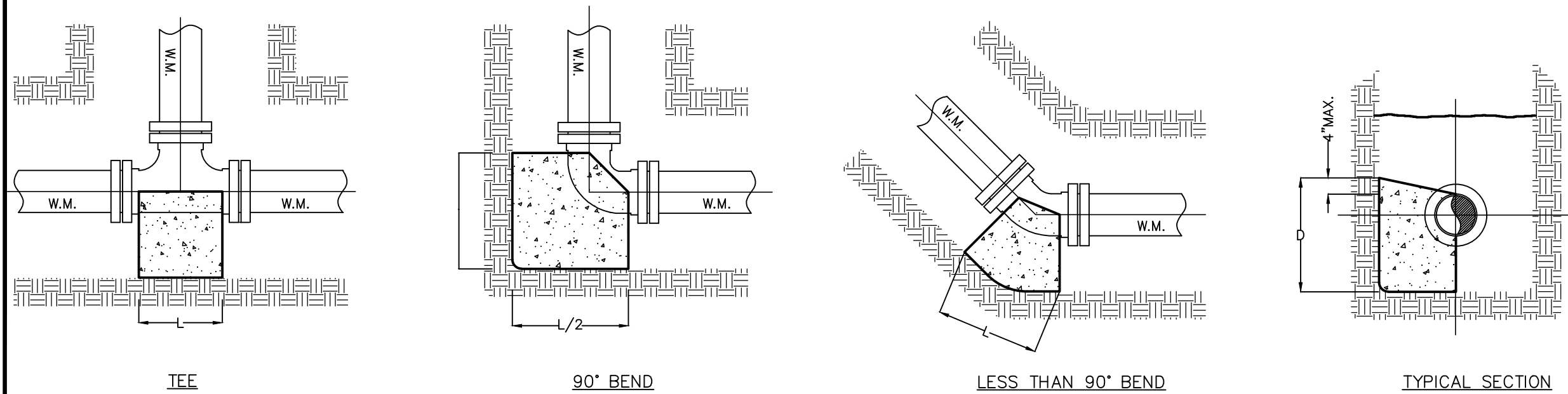


PROJECT:

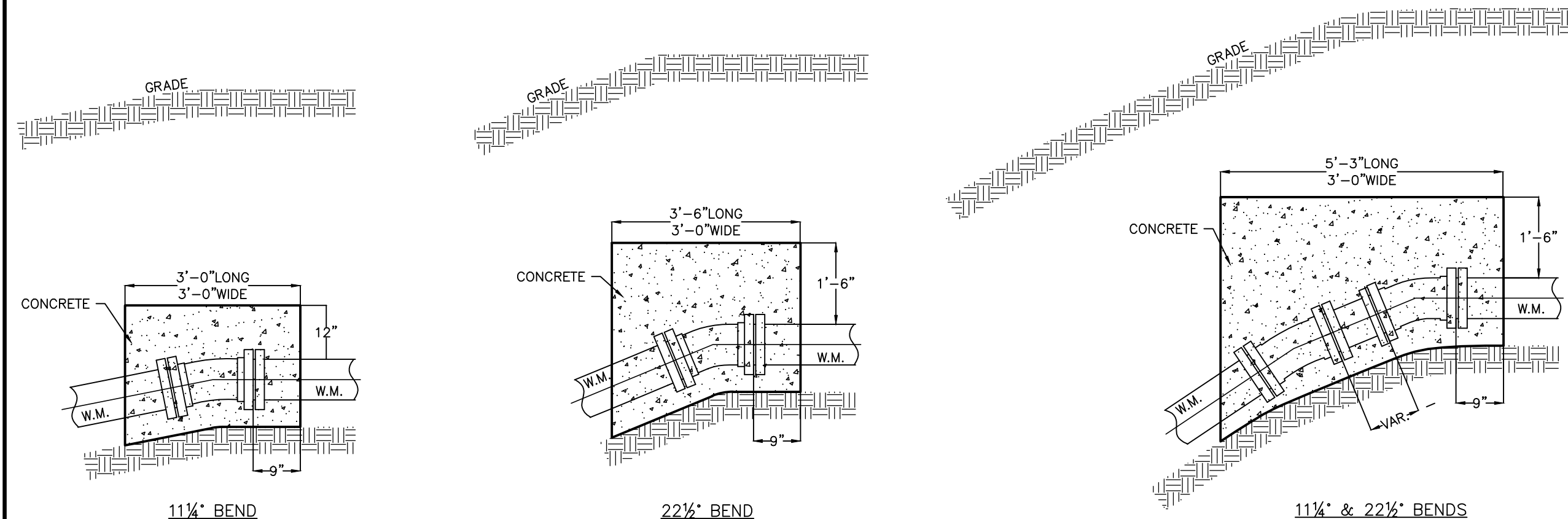
TYPICAL STORM SEWER
DETAILS

THE DESIGN ENGINEER WHOSE STAMP OR SIGNATURE IS AFFIXED TO THIS SET OF PLANS CERTIFIES UNDER THE PENALTY OF PERJURY THAT THE INFORMATION ON THIS SHEET HAS NOT BEEN MODIFIED FROM ITS ORIGINAL FORM UNLESS EXPRESSLY APPROVED BY THE MEDINA COUNTY ENGINEER'S OFFICE.

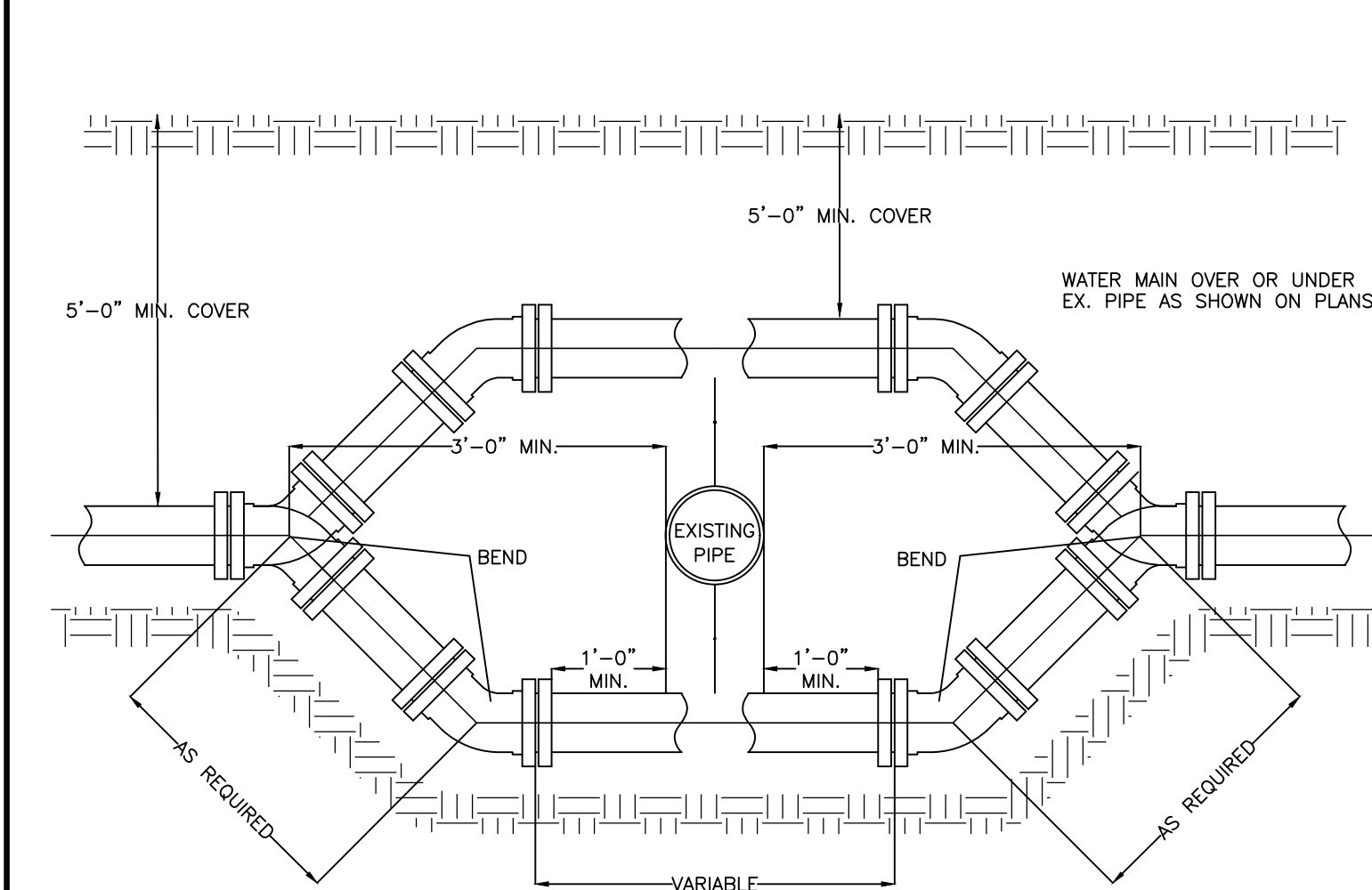
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CHECKED BY: H. GERSPACHER		SCALE: AS NOTED		
M.C.E. COMPUTER FILE NO. M:\SUBDIV\STMDTCLS				
REV. NO.	DATE	DESCRIPTION	DRAWN BY	PAGE
1	JAN. 06	MISC. & COVER OVER HDPE	S.HAWK	44
2	MAR. 06	T.V. INSPECTION, ADD NOTE #13	M. MARTIN	OF
3	MAR. 07	MANHOLE ADJUST.-GRADE RINGS ONLY	H. GERSP.	46



CONCRETE BLOCKING FOR HORIZONTAL BENDS

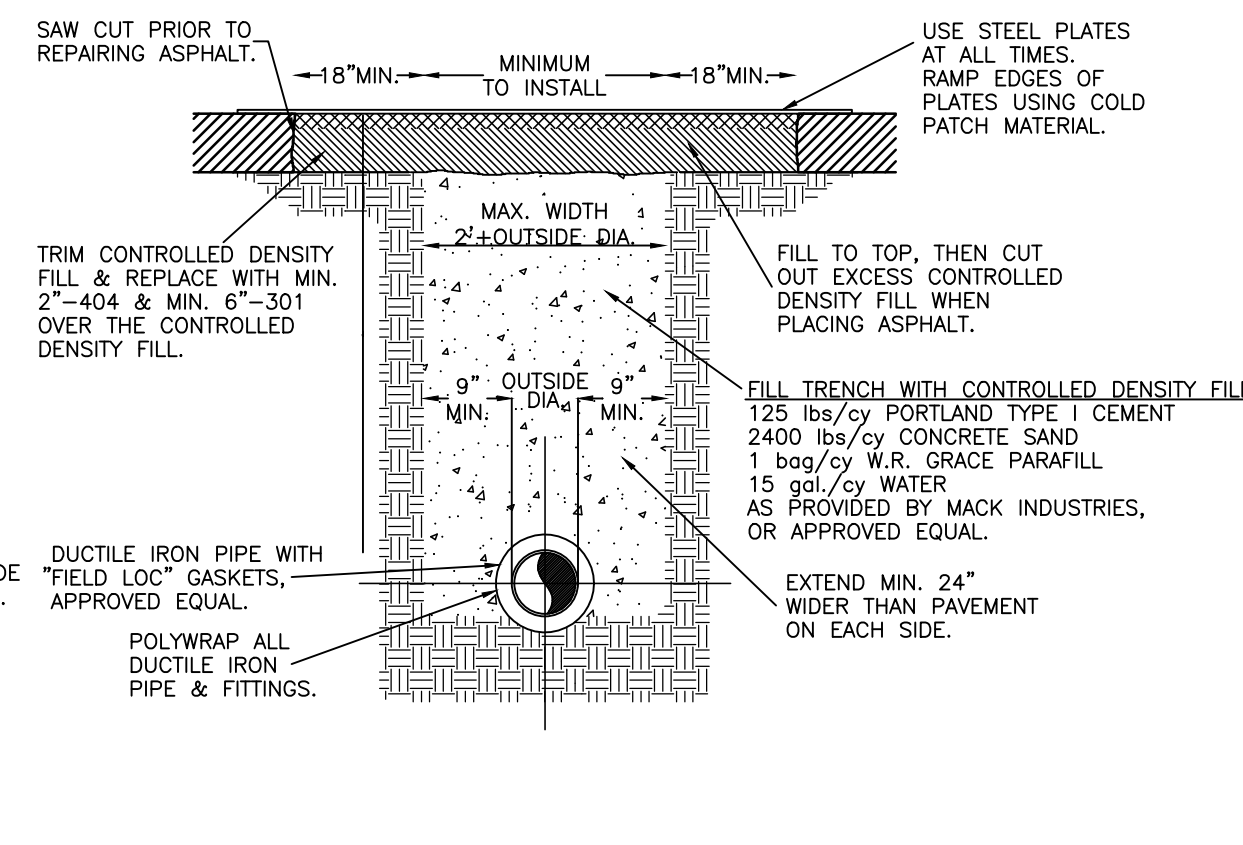
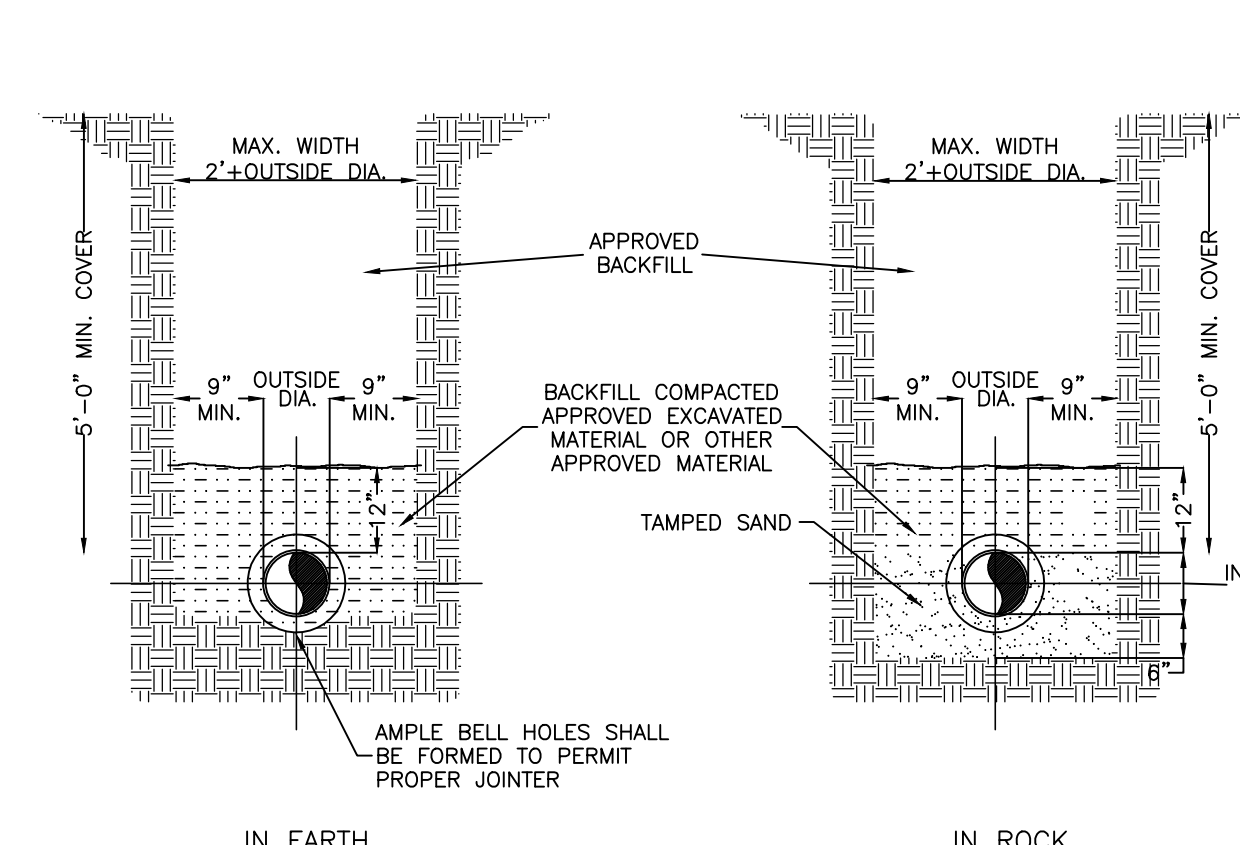
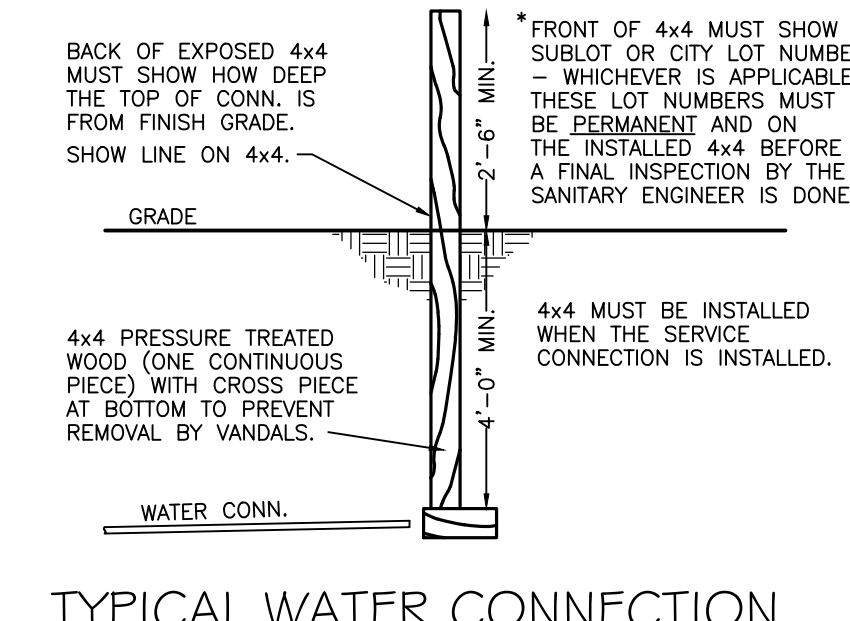
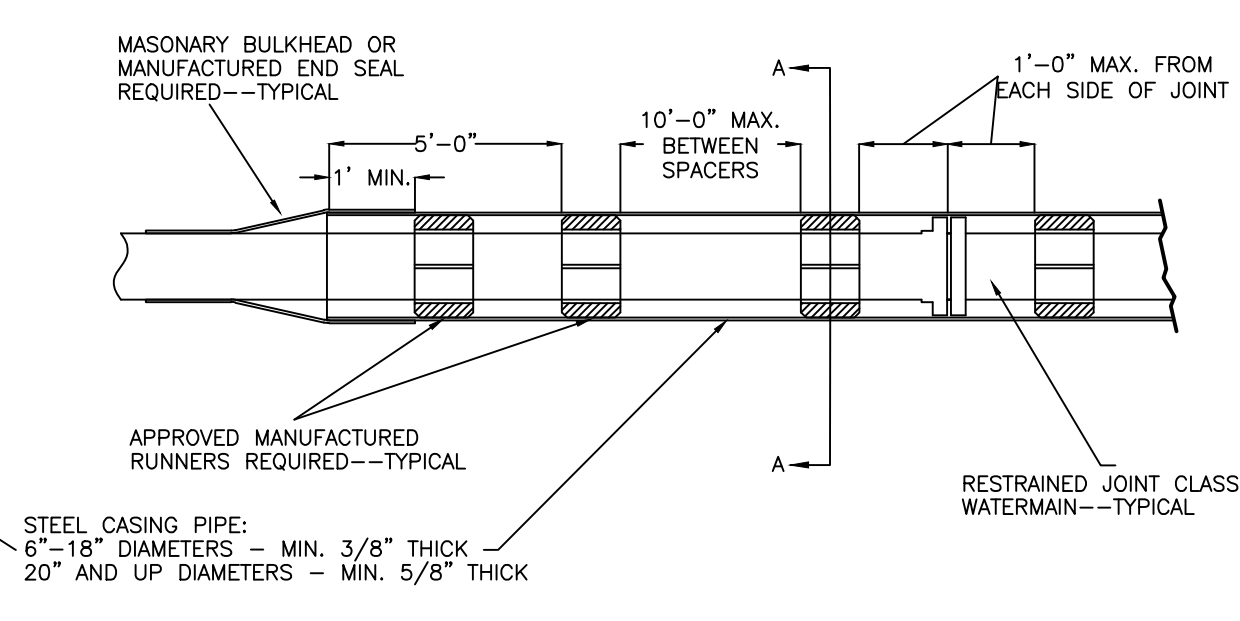
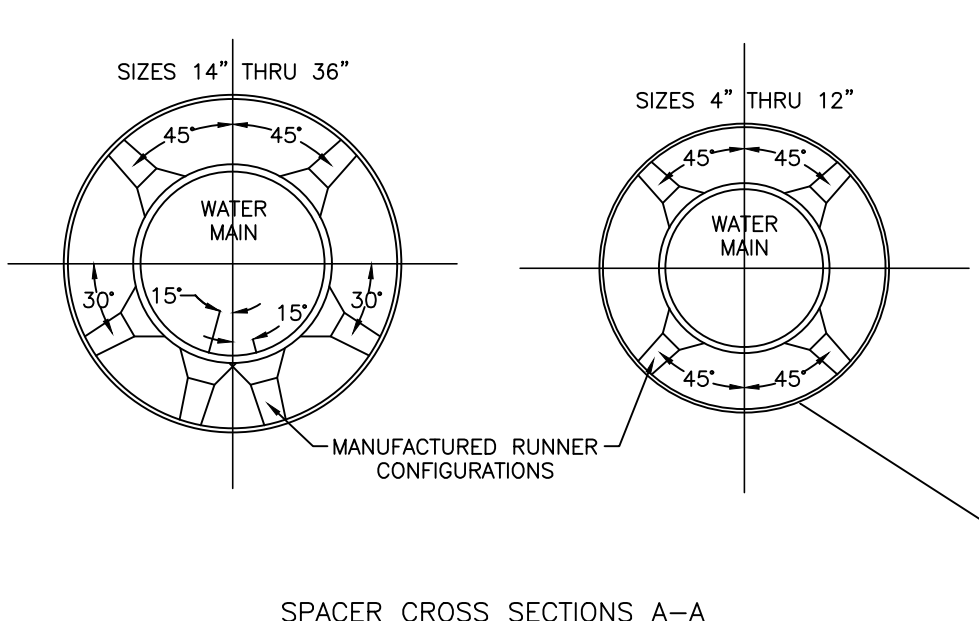
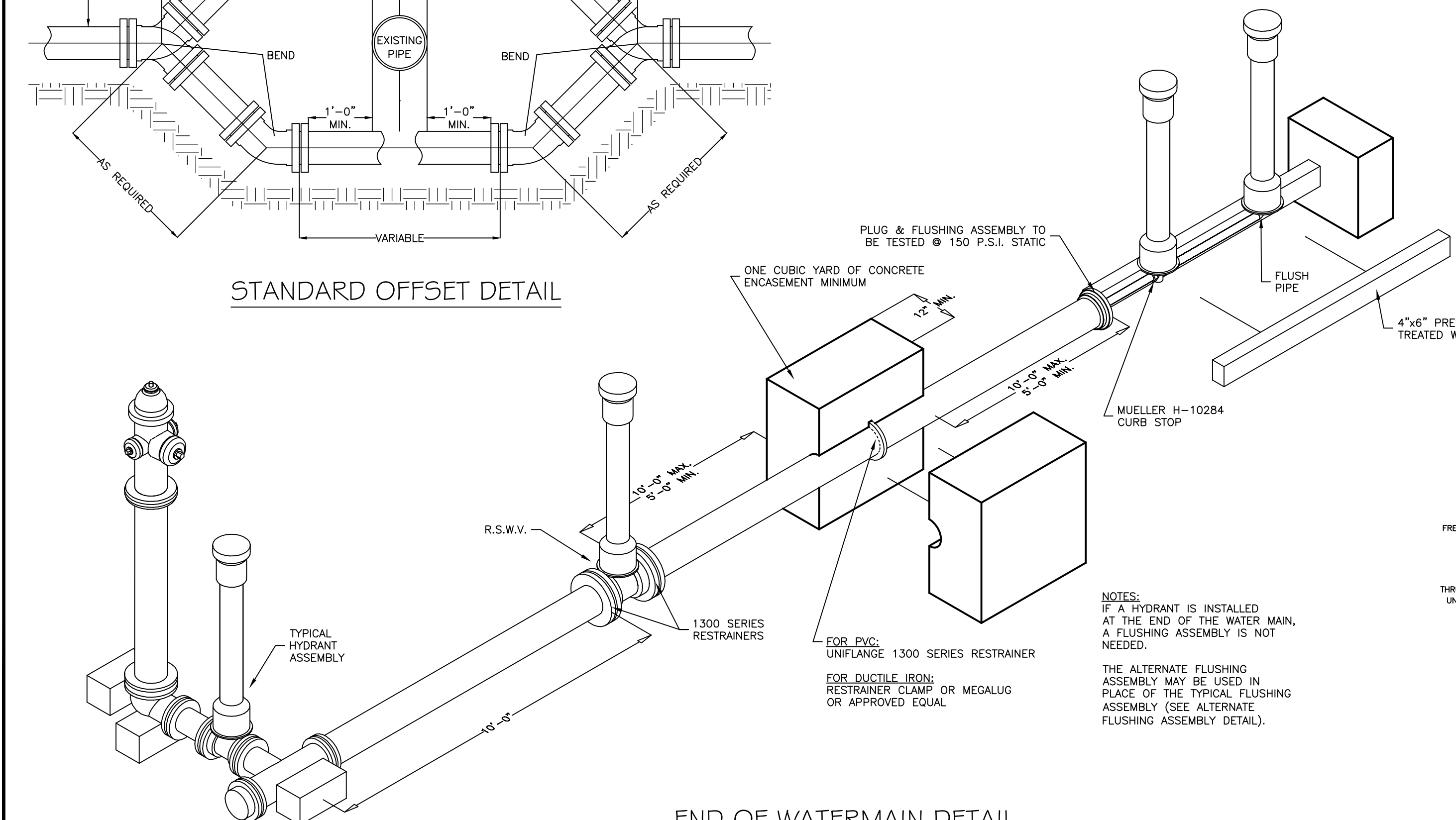


CONCRETE BLOCKING FOR VERTICAL BENDS



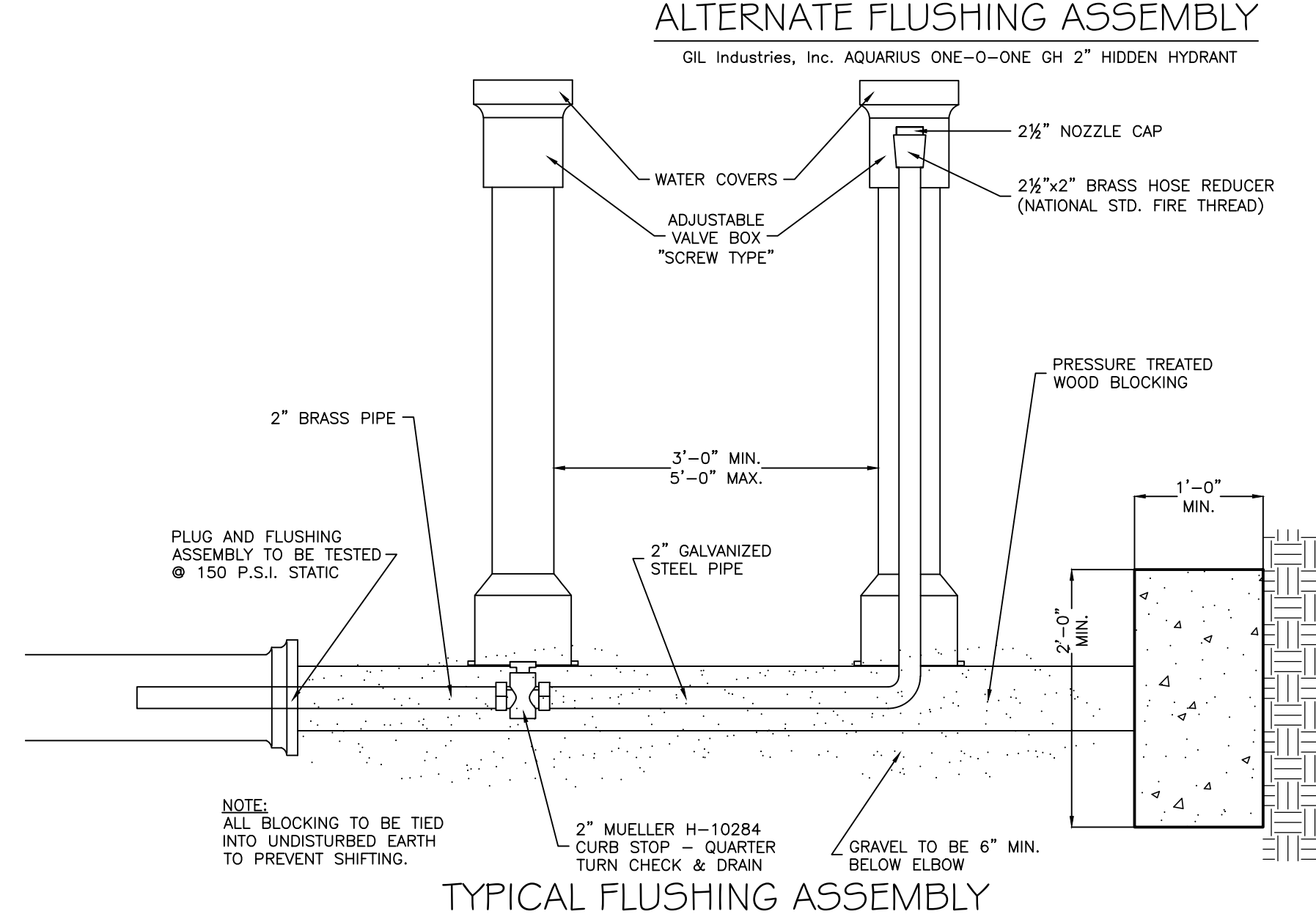
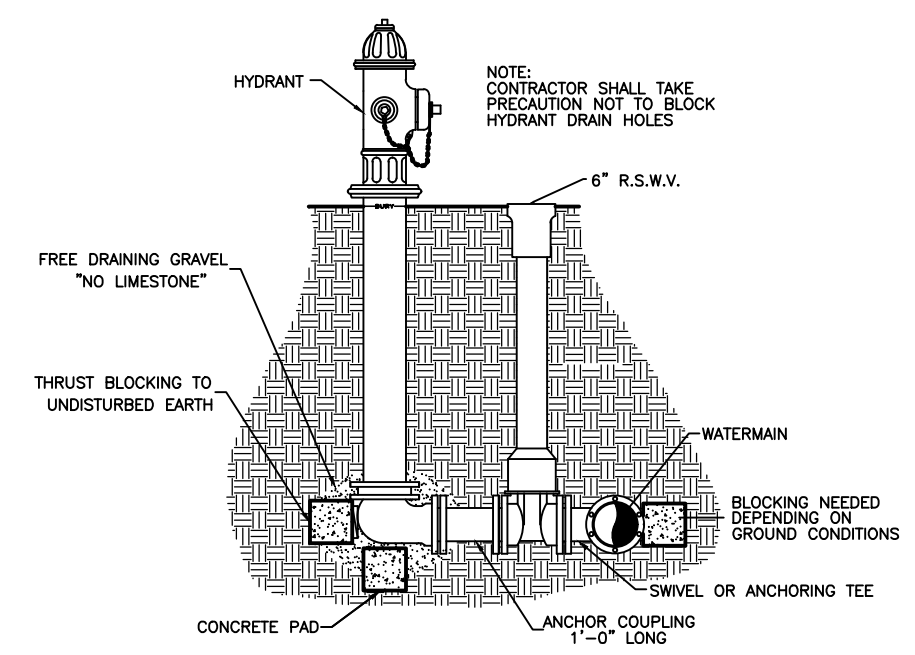
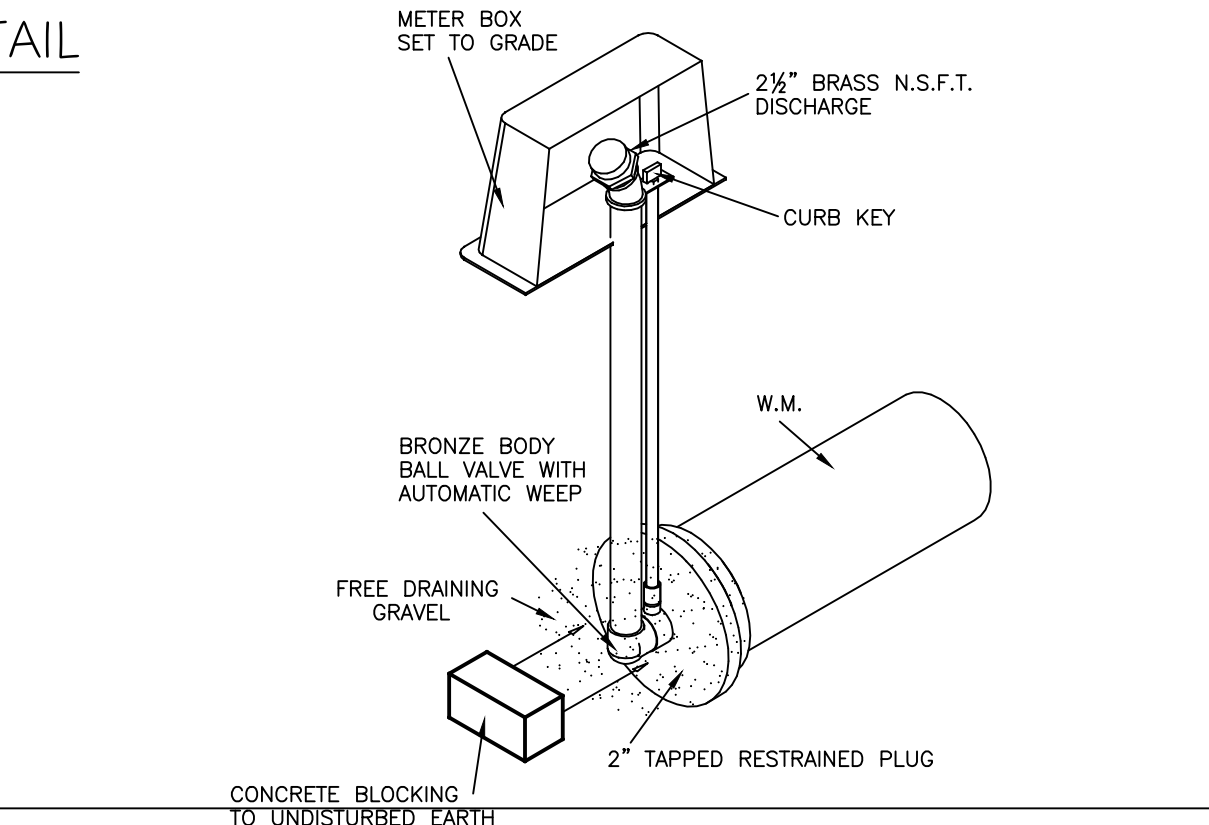
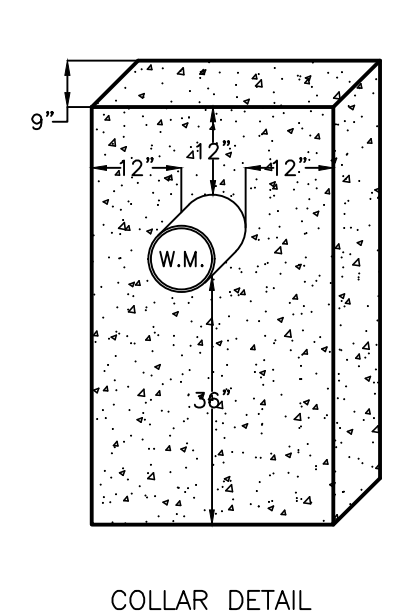
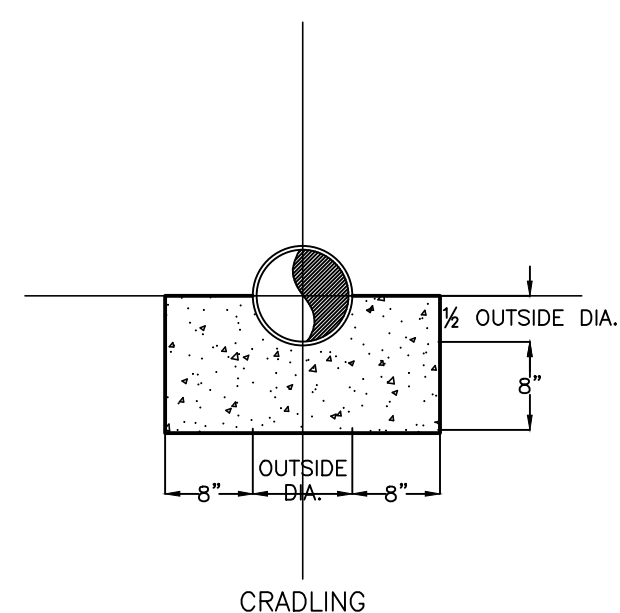
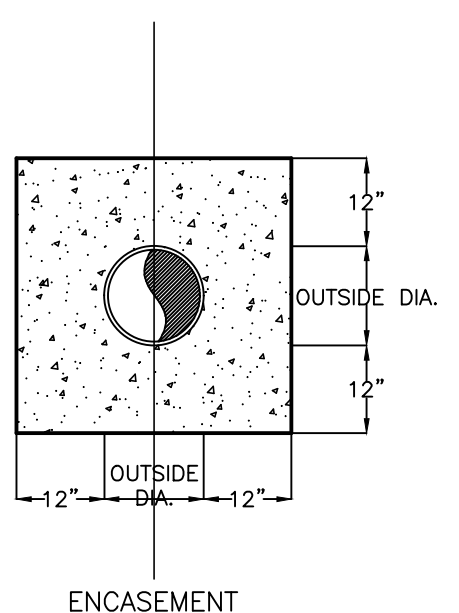
TEES	BRANCH							
	3", 4", 6"				8", 12", 16"			
RUN	L	D	L	D	L	D	L	D
3", 4", 6"	16"	7"						
8"	14"	8"	18"	12"				
12"	9"	12"	18"	12"	24"	18"		
16"	8"	16"	14"	16"	28"	16"	30"	26"
> 16"	TO BE DETERMINED IN FIELD BASED ON GROUND CONDITIONS							

BENDS	DEGREE OF BEND							
	11 1/4°				22 1/2°			
SIZE OF PIPE	L	D	L	D	L	D	L	D
3", 4", 6"	8"	6"	10"	6"	20"	6"	36"	6"
8"	9"	8"	14"	8"	24"	8"	50"	8"
12"	14"	12"	22"	12"	30"	15"	60"	15"
16"	18"	16"	24"	18"	33"	36"	70"	22"
> 16"	TO BE DETERMINED IN FIELD BASED ON GROUND CONDITIONS							

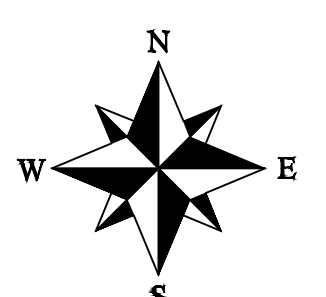


TRENCH DETAIL

OPEN CUT DETAIL



MEDINA LINE ROAD
WATER MAIN EXTENSION



WATER MAIN STANDARDS

COUNTY: MEDINA	TOWNSHIP: MEDINA	DATE: MAY 2010	BY:
DRAWN BY:	REVIEWED BY:	DATE: MAY 2010	DATE:
SCALES: HORIZONTAL N/A / VERTICAL N/A		DESCRIPTION	
DATE		DATE	

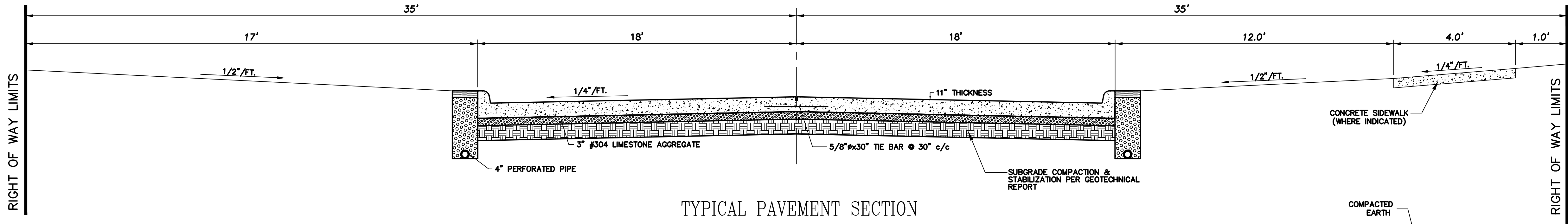
PLAN PREPARED BY:
**MEDINA COUNTY
SANITARY ENGINEER**
AMY LYON-GALVIN, P.E.
791 WEST SMITH RD.
MEDINA, OHIO 44256
(330) 725-9585

PROJECT NUMBER

SHEET NUMBER

45 / 46

NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT



TYPICAL PAVEMENT SECTION

NOTES

GENERAL:

CONCRETE PAVEMENT, INCLUDING THE MIXING, PLACING, FINISHING, CURING, AND PROTECTION OF SAME, SHALL CONFORM TO SPECIFICATION ITEMS 452 AND 499, STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION).

THE CONTRACTOR SHALL KEEP ALL EXISTING AND PROPOSED PAVEMENTS CLEAR OF MUD, DEBRIS, AND OILS AND KEEP THE RIGHT-OF-WAY CLEAR OF EQUIPMENT AND MATERIALS. TRAFFIC CONTROL ON EXISTING ROADS SHALL BE MAINTAINED ACCORDING TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

NO TRAFFIC SHALL BE PERMITTED ON THE CONCRETE PAVEMENT FOR A PERIOD OF 7 DAYS UNLESS TESTING INDICATES THAT A MINIMUM FLEXURAL STRENGTH OF 600 PSI HAS BEEN OBTAINED. DURING THIS TIME THE PAVING CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AS DIRECTED BY THE MEDINA COUNTY ENGINEER. JOINT SEALING MUST BE COMPLETED AND APPROVED BY THE MEDINA COUNTY ENGINEER BEFORE THE ROAD IS OPEN TO ANY TRAFFIC.

MATERIALS:

CONCRETE	499
CURING MATERIALS (LIQUID)	705.07 (● MINIMUM 1 GAL./150 FT. ²)
PREFORMED JOINT FILLER	705.03
JOINT SEALER (HOT APPLIED)	* SEE NOTE

* JOINT SEALER MATERIAL SHALL MEET ASTM D3405 AND SS-S-1401C. THIS MATERIAL SHALL BE "CRAFCO-ROADSAVER 221" OR "W. R. MEADOWS - HI-SPEC POLYMERIC JOINT SEALING COMPOUND" OR APPROVED EQUAL.

CONCRETE MIXTURE:

CLASS - MEDINA C (PER CUBIC YARD)

No. 57 LESTONE	1,200 LBS.
No. 8 LESTONE	500 LBS.
FINE AGGREGATE	1,315 LBS.
CEMENT - TYPE 1	600 LBS.
*POLYPROPYLENE FIBERS	1.5 LBS.
WATER	MAX. WATER-CEMENT RATIO 0.50
ENTRAINED AIR	4% TO 8%
SLUMP-MAXIMUM	3" **

CLASS - MEDINA C-1 (PER CUBIC YARD)

No. 57 LESTONE	1,200 LBS.
No. 8 LESTONE	500 LBS.
FINE AGGREGATE	1,340 LBS.
CEMENT - TYPE 1	510 LBS.
*POLYPROPYLENE FIBERS	1.5 LBS.
FLY ASH - TYPE C ONLY	90 LBS.
WATER	MAX. WATER-CEMENT RATIO 0.50
ENTRAINED AIR	4% TO 8%
SLUMP-MAXIMUM	3" **

NO CHANGES SHALL BE MADE TO THIS MIX DESIGN WITHOUT PRIOR APPROVAL OF THE MEDINA COUNTY ENGINEER.

*POLYPROPYLENE FIBERS SHALL BE IN FIBRILLATED-NETWORK FORM MADE OF VIRGIN MATERIALS WITH MINIMUM 1 1/2" FIBER LENGTH.

**PLASTICIZERS AND WATER REDUCERS APPROVED FOR HAND WORK.

LONGITUDINAL JOINTS:

LONGITUDINAL JOINTS SHALL BE ON THE CENTERLINE OF THE PAVEMENT UNLESS OTHERWISE DIRECTED.

EXPANSION JOINTS:

EXPANSION JOINTS SHALL BE INSTALLED AT THE THROAT OF ALL CUL-DE-SACS AND AT THE RADIUS RETURN OF ALL SIDE STREETS. THE THICKENED EDGE EXPANSION JOINT DESIGN SHALL BE USED (SEE DETAIL), WHEN THE AMBIENT TEMPERATURE FALLS BELOW 40°F (4°C) ADDITIONAL EXPANSION JOINTS ARE TO BE INSTALLED AT 600'-1,000' INTERVALS.

CONTRACTION JOINTS:

CONTRACTION JOINTS SHALL BE UNIFORMLY SPACED AND SLABS SHALL BE SQUARE WHENEVER POSSIBLE. MAXIMUM JOINT SPACING SHALL BE (12) FEET FOR (7) INCH THICK PAVEMENT, (14) FEET FOR (8) INCH THICK PAVEMENT AND (15) FEET FOR (9) INCH THICK PAVEMENT. IF RECTANGULAR SLABS ARE REQUIRED, ONE DIMENSION SHOULD NEVER EXCEED THE OTHER BY MORE THAN 1.5 TIMES. JOINTS SHOULD HAVE A MINIMUM DEPTH OF 1/4 THE THICKNESS OF THE SLAB AND JOINTS SHOULD BE CONTINUOUS AND EXTEND THROUGH INTEGRAL CURBS.

CONSTRUCTION JOINTS:

SMOOTH DOWELS SHALL BE USED IN TYPE "B" CONSTRUCTION JOINTS IN ALL PAVEMENTS. THE JOINT SHALL BE FORMED BY USING AN ADEQUATE BULKHEAD THAT WILL PROVIDE A STRAIGHT JOINT. THE BULKHEAD SHALL BE SHAPED TO FIT THE TYPICAL SECTION OF THE PAVEMENT. DOWELS SHALL BE HELD RIGIDLY IN POSITION DURING THE PLACING OF THE CONCRETE.

EXPANSION BOLT JOINT:

SELF-DRILLING ANCHORS MAY BE OF THE FLUSH-END TYPE OR OF THE SNAP-OFF CHUCK-END TYPE CONFORMING TO FEDERAL SPECIFICATION NO. FF-S325, GROUP III, TYPE (A) OR (C) EXCEPT FOR THE OUTSIDE DIAMETER OF THE ANCHOR. THE HOOK BOLT OR ALTERNATE MAY BE USED TO COMPLETE THE ASSEMBLY.

HOOK BOLTS & TIE BARS:

HOOK BOLT INSERTS SHALL BE TURNED TO A TIGHT FIT.

TIE BARS SHALL BE 5/8" ROUND, DEFORMED BARS. A SATISFACTORY DEVICE SHALL BE USED TO HOLD THE TIE BARS IN PROPER POSITION.

TIE BARS AND HOOK BOLT ASSEMBLIES SHALL HAVE A MINIMUM STRENGTH OF 11,000 POUNDS.

MONUMENT PINS:

WHERE INDICATED ON THE PLANS, "INSTALL MONUMENT", THE CONTRACTOR SHALL INSTALL MONUMENT BOX AS SHOWN IN THE MONUMENT BOX DETAIL. MONUMENT BOX CASTING TO BE E.J.W #2960 OR APPROVED EQUAL.

UNDERDRAINS:

PIPE UNDERDRAINS SHALL BE INSTALLED ALONG ALL PAVEMENT EDGES. DRAINS SHOULD OUTLET AT 500 FOOT MAXIMUM SPACINGS AND SHALL CONNECT TO CULVERTS, MANHOLES AND CATCH BASINS WITH A 6" CORE. IF STRUCTURES ARE MORE THAN 500 FOOT APART, THE DRAINS SHOULD OUTLET TO THE ROADSIDE DITCH OR DRAINAGE CHANNEL AS DIRECTED BY THE ENGINEER. UNDERDRAINS SHALL BE CONSTRUCTED USING PERFORATED 4" CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (PER O.D.T. ITEM 707.33) BACKFILL MATERIAL SHALL BE No.57 LESTONE.

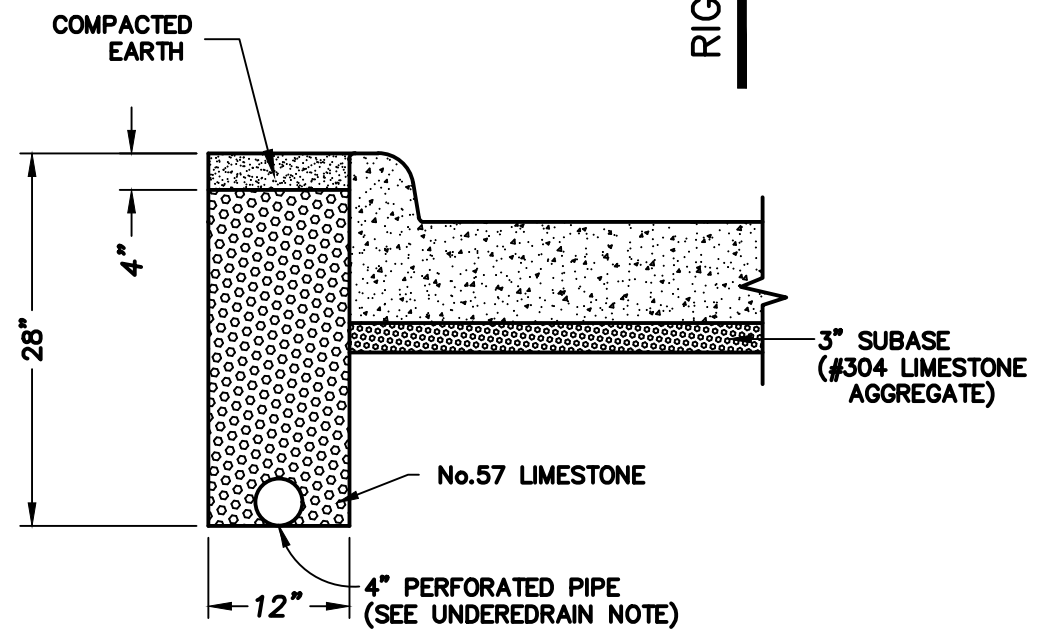
COLD WEATHER CONCRETING:

WHEN CONCRETE HAS BEEN PLACED IN COLD WEATHER AND THE TEMPERATURE MAY BE EXPECTED TO DROP BELOW 35 DEGREES F., STRAW, HAY, INSULATING BLANKETS OR OTHER SUITABLE MATERIAL SHALL BE PROVIDED ALONG THE LINE OF WORK. WHENEVER THE AIR TEMPERATURE MAY BE EXPECTED TO REACH THE FREEZING POINT DURING THE DAY OR NIGHT, THE MATERIAL SHALL BE SPREAD OVER THE CONCRETE DEEP ENOUGH TO PREVENT FREEZING OF THE CONCRETE. CONCRETE SHALL BE PROTECTED FROM FREEZING TEMPERATURES UNTIL IT IS AT LEAST FIVE (5) DAYS OLD. NO CONCRETE WILL BE MIXED, PLACED, OR FINISHED AFTER DARK, UNLESS AN ADEQUATE AND APPROVED ARTIFICIAL LIGHTING SYSTEM IS OPERATED. THE SUBGRADE OR SUBBASE UPON WHICH CONCRETE IS TO BE PLACED SHALL BE ENTIRELY FREE FROM FROST WHEN CONCRETE IS DEPOSITED. CONCRETE INJURED BY FROST ACTION SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOT POUR CONCRETE STREETS FROM NOVEMBER 15 TO MARCH 15, EXCEPT BY SPECIFIED WRITTEN AUTHORIZATION.

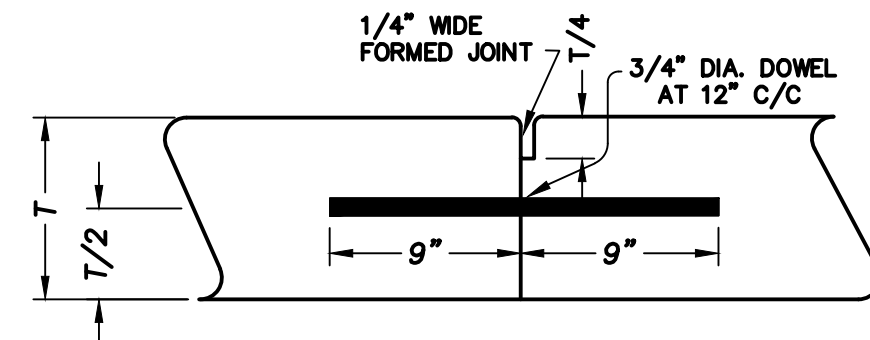
THE ABOVE NOTES ARE GENERAL GUIDELINES FOR COLD WEATHER PROTECTION, ACTUAL REQUIREMENTS AND APPROVAL FOR PAVING UNDER COLD WEATHER CONDITIONS SHALL BE DETERMINED BY THE MEDINA COUNTY ENGINEER OR HIS DULY APPOINTED AGENT A MINIMUM OF 24 HOURS PRIOR TO PAVING. THESE REQUIREMENTS SHALL BE DETERMINED BY THE MEDINA COUNTY ENGINEER BASED ON EXISTING WEATHER CONDITIONS, EXISTING GROUND TEMPERATURE, CONCRETE PROPORTIONS (WATER CONTENT, ADMIXTURES, ETC.) AND THE WEATHER FORECAST FOR THE FOLLOWING FIVE (5) DAYS.

THE ACI MANUAL OF CONCRETE PRACTICE, SECTION 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING" SHALL BE USED AS A GENERAL REFERENCE FOR DETERMINING THE REQUIREMENTS TO BE IMPOSED BY THE MEDINA COUNTY ENGINEER.

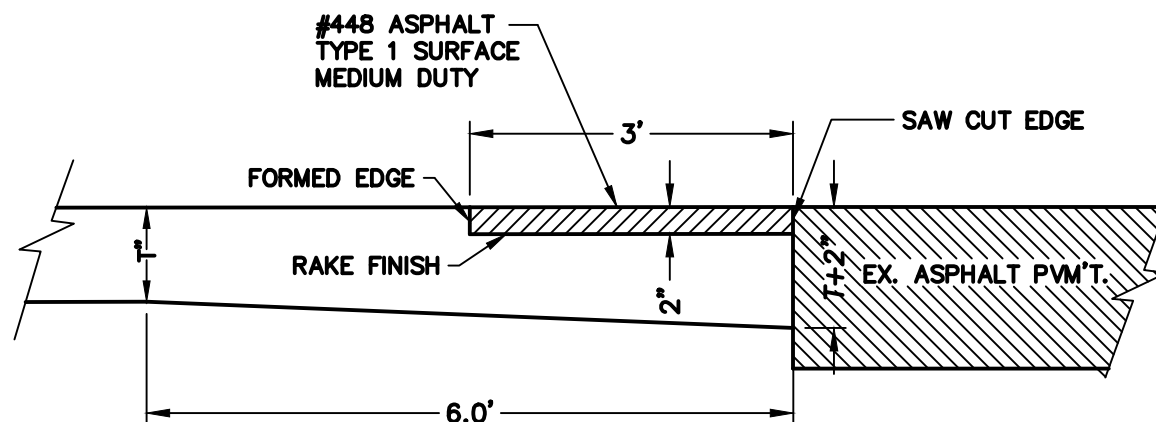
THE COUNTY ENGINEER OR HIS DULY-APPOINTED AGENT SHALL HAVE THE OPPORTUNITY TO INCREASE OR DECREASE ANY AGREED UPON REQUIREMENTS FOR COLD WEATHER PAVING BASED UPON CHANGING WEATHER CONDITIONS AND FORECASTS.



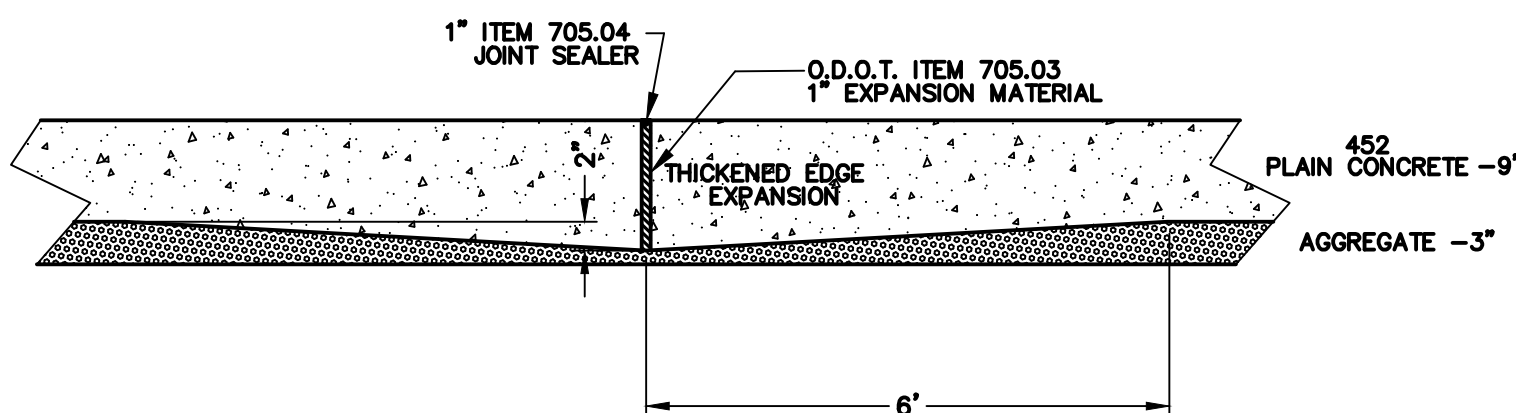
UNDERDRAIN DETAIL



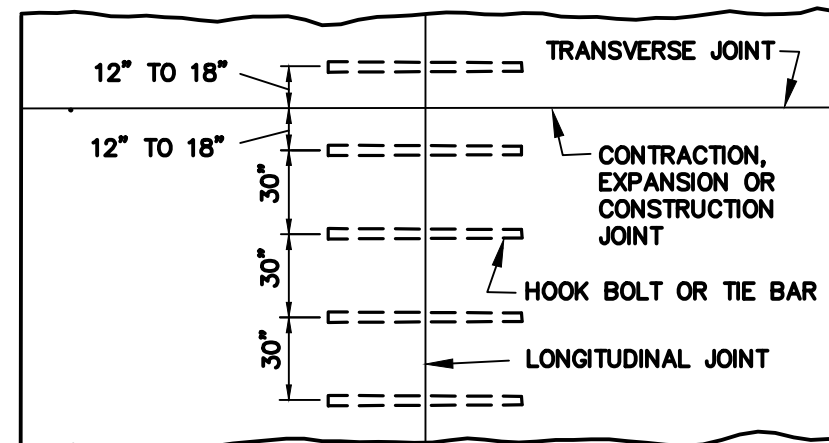
CONSTRUCTION JOINT



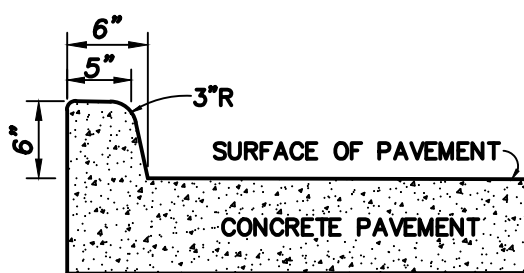
THICKENED CONCRETE EDGE TRANSITION



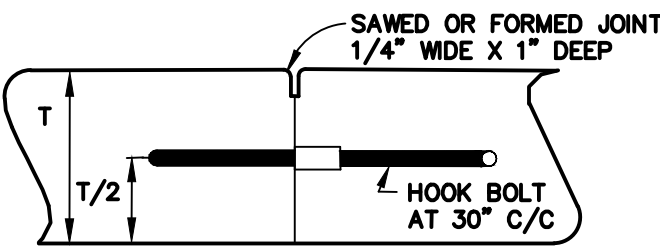
THICKENED EDGE EXPANSION JOINT



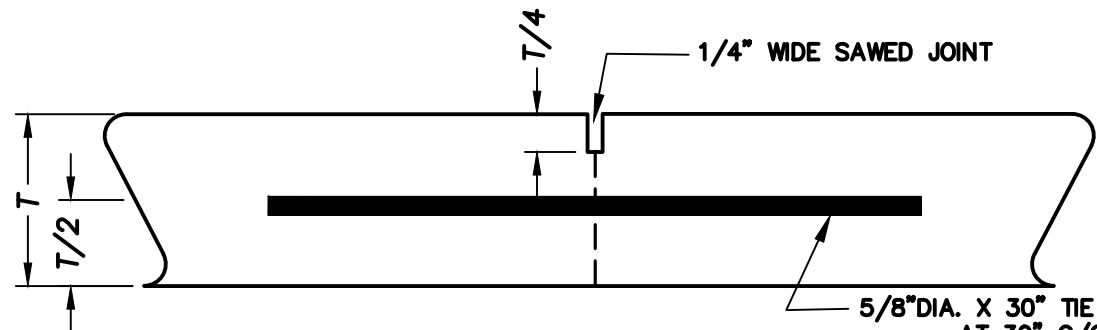
TIE BAR OR HOOK BOLT SPACING PLAN



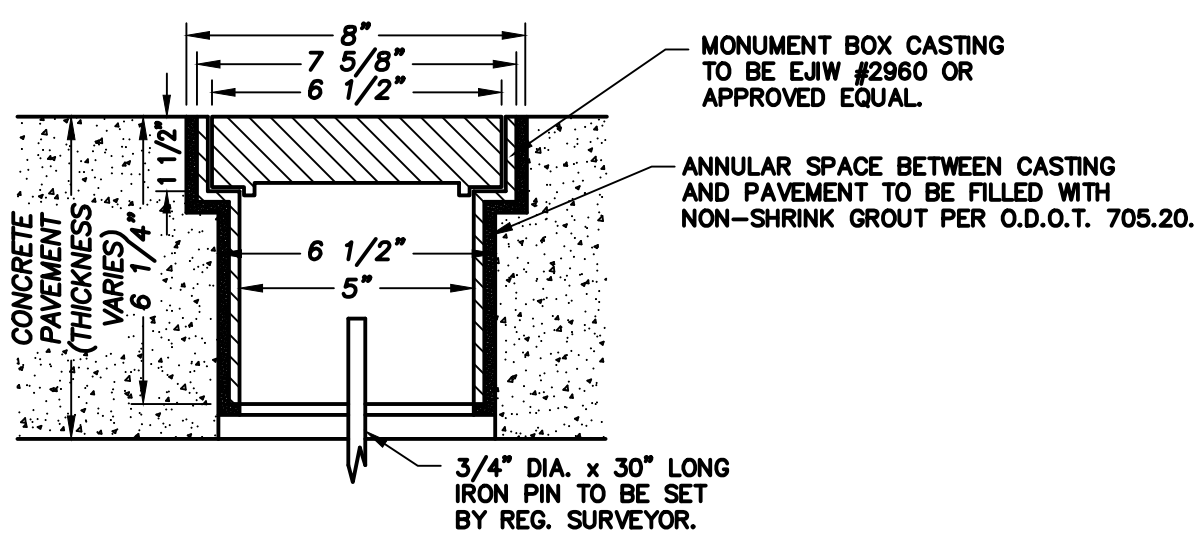
TYPE 2-A CURB DETAIL



LONGITUDINAL JOINT FOR SINGLE LANE POURING

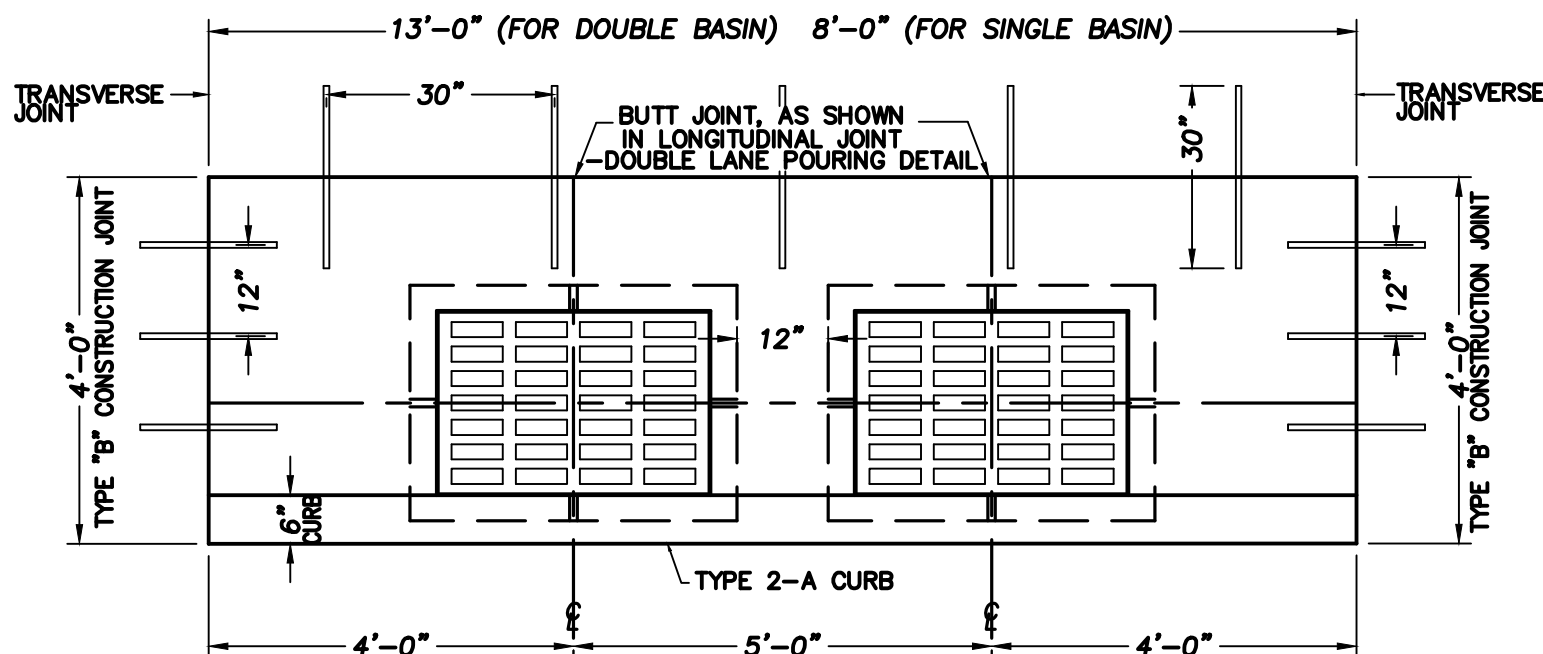


LONGITUDINAL JOINT FOR DOUBLE LANE POURING



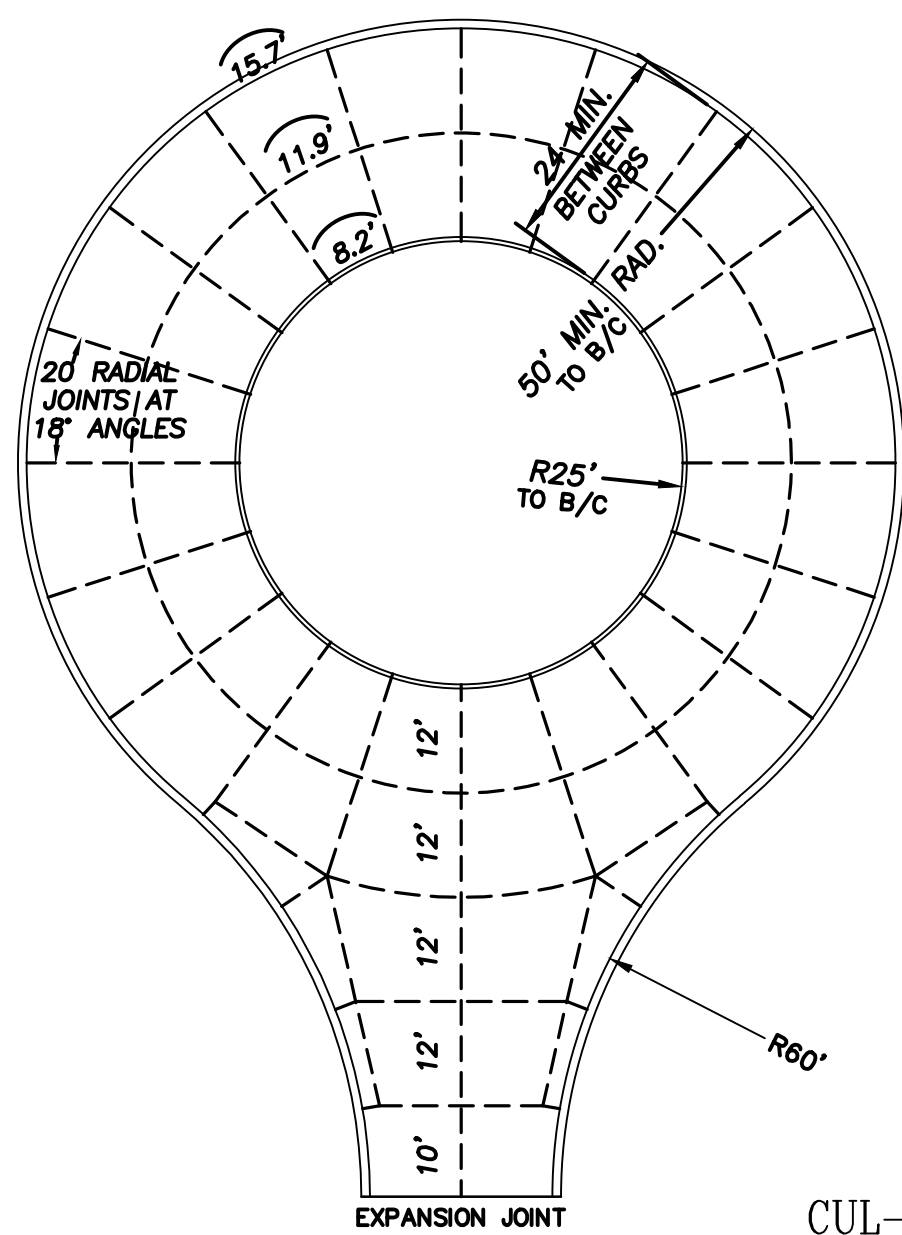
INSTALLATION:
1. CORE BOTH OPENINGS IN PAVEMENT.
2. REMOVE DEBRIS AND PREPARE CONCRETE FOR GROUT PER MANUFACTURER'S INSTRUCTIONS.
3. COAT PAVEMENT OPENING AND EXTERIOR OF CASTING WITH GROUT.
4. INSTALL CASTING AND FINISH FLUSH WITH EXISTING PAVEMENT.

MONUMENT BOX DETAIL

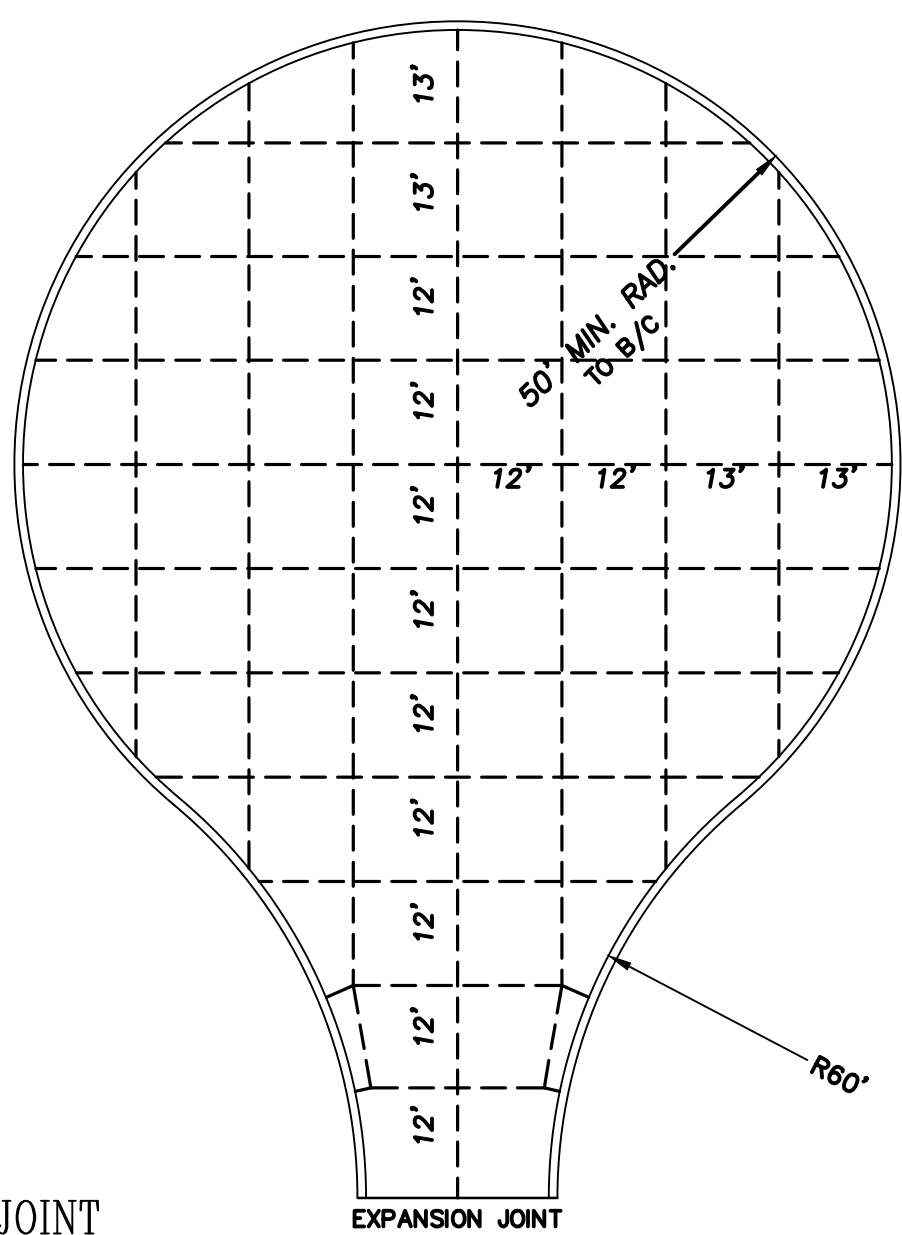


TYPICAL INLET BASIN BLOCKOUTS

NOTE: FRAME AND GRATE SHALL BE INSTALLED AS SHOWN ON THE STANDARD STORM SEWER DETAILS.



CUL-DE-SAC JOINT DETAILS



EXPANSION JOINT

REVISIONS	DESCRIPTION	DATE
INT		

THE MARKET AT MEDINA LINE - PHASE I

LOCATED IN TOWNSHIP OF GRANGER COUNTY OF MEDINA

CUNNINGHAM & ASSOCIATES, INC.
CIVIL ENGINEERING and SURVEYING
203 W. LIBERTY ST. MEDINA, OHIO 44256 330-725-5980

SHEET TITLE:

PAVEMENT DETAILS

DRAWN BY: TEM
DATE: 11/20/20
CHECKED BY:
DATE:
PROJECT No. 19-186
ACAD FILE No. M:\19186-PVMT-DTLS.dwg
M.C.S.E. # SW-900/00-58.1

SCALE: PLAN-AS NOTED
PROFILE-Horz.
Vert.

SHEET NO.