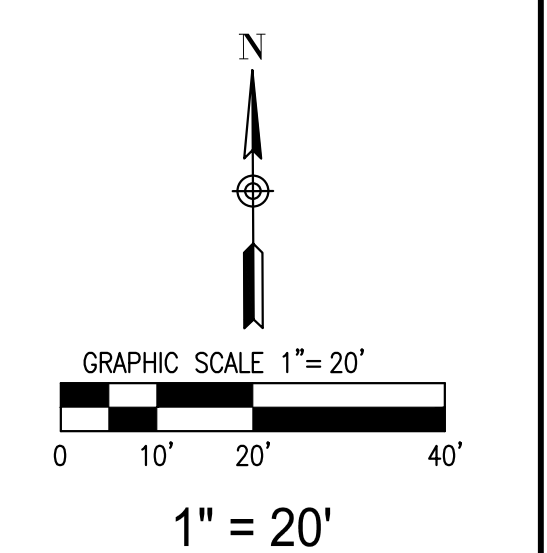


3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

REV	DATE	DESCRIPTION
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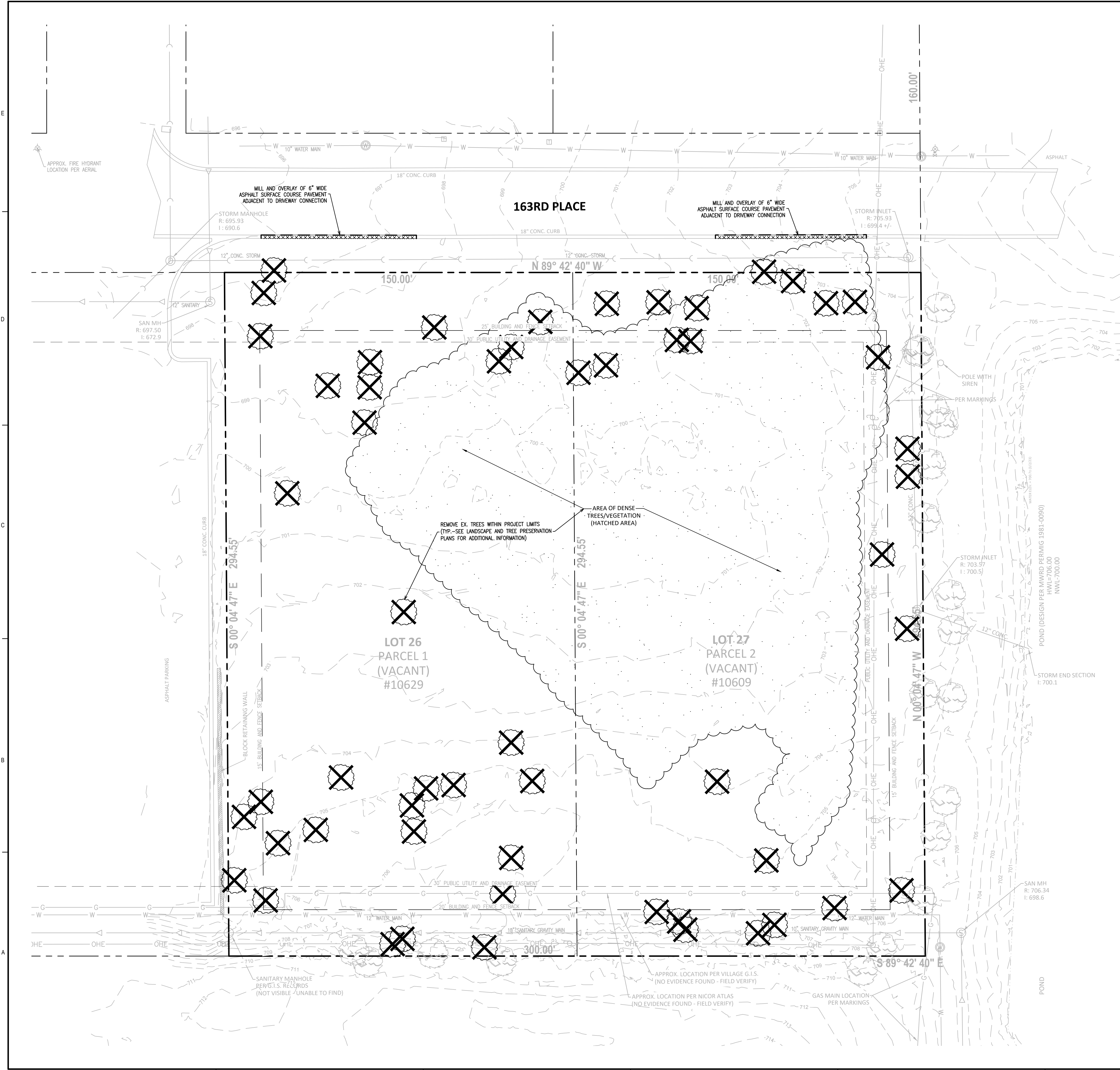
KEY PLAN



PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	

EXISTING CONDITIONS AND DEMOLITION PLAN

DATE:	01/16/24	SHEET NO.	C2
REV:	3		



**PLANNING DIVISION
APPROVED**

Case No: **2023-0508**

Date: **12/19/2023**

W/Conditions: **Yes**

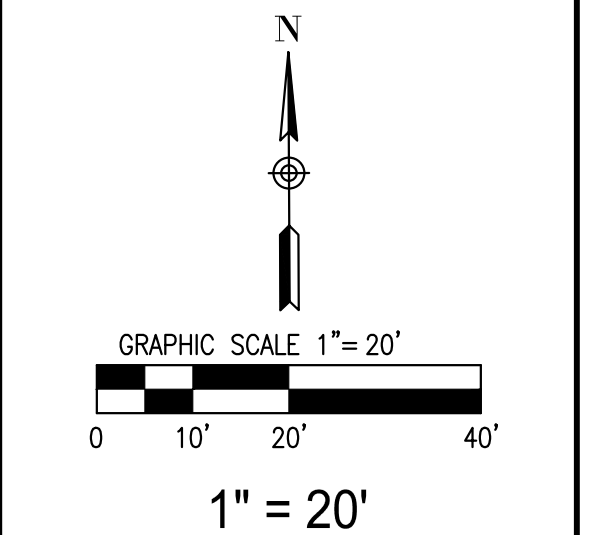
W/Out Conditions: **---**

VILLAGE OF ORLAND PARK

ISSUE
ISSUED FOR REVIEW - 90%

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

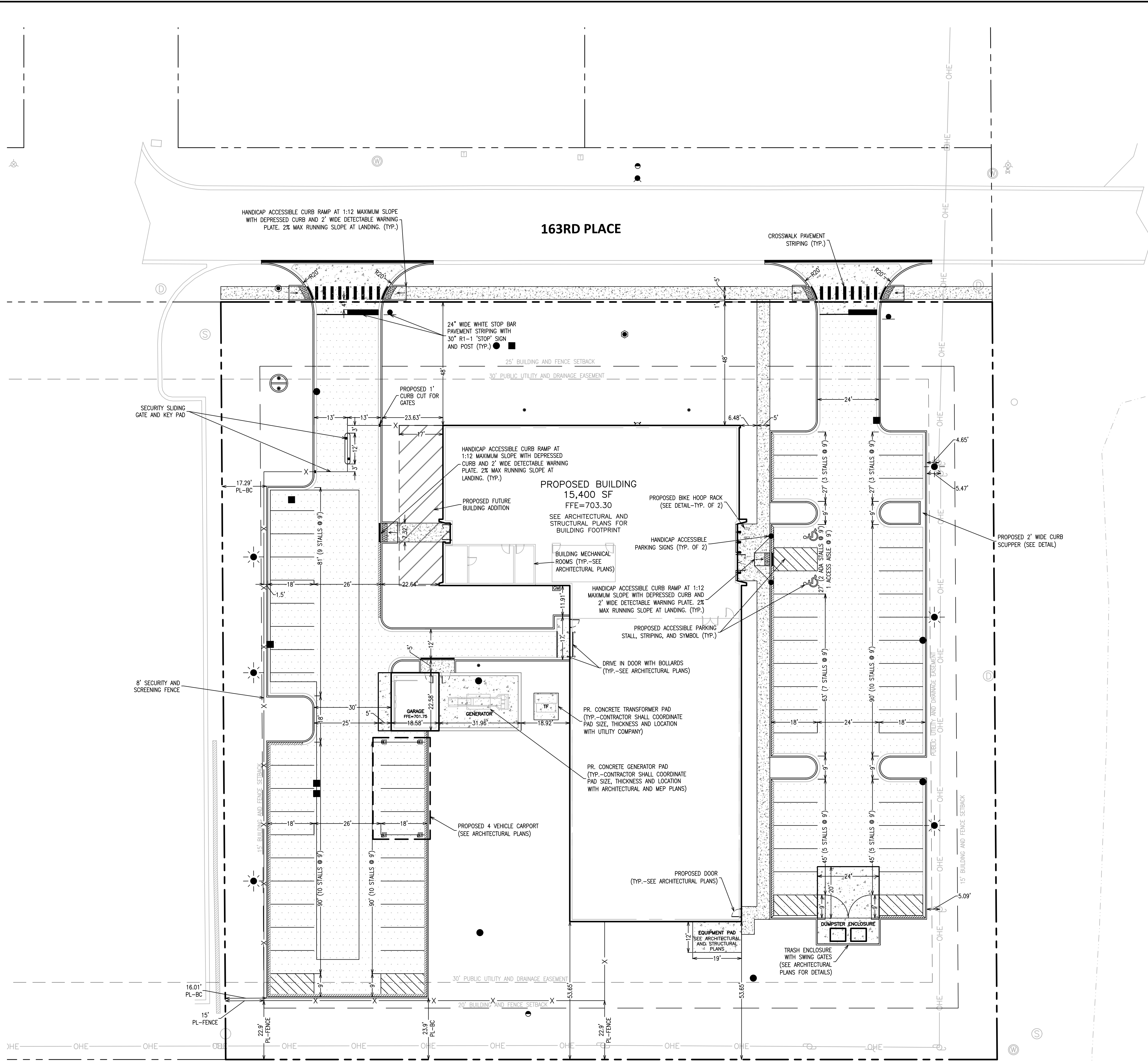
KEY PLAN



PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	

**DIMENSIONAL
CONTROL AND PAVING
PLAN**

DATE:	01/16/24	SHEET NO.	C3
REV:	3		



PAVEMENT HATCH LEGEND:

- ASPHALT PAVEMENT
2" HMA SURFACE COURSE, MIX D, N50
2-1/2" HMA BINDER COURSE, IL 19.0, N50
8" CA-6 CRUSHED STONE
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- HEAVY DUTY CONCRETE PAVEMENT
8" PORTLAND CEMENT CONCRETE
4,000 PSI, A/E
4" CA-6 CRUSHED STONE
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR
- CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4,000 PSI, A/E
4" CA-6 CRUSHED STONE
COMPACTED SUBGRADE, 95% MODIFIED PROCTOR

CURB LEGEND:

- B6.12 CURB AND GUTTER
- REVERSE PITCH B6.12 CURB AND GUTTER
- DEPRESSED CURB AND GUTTER

NOTE:

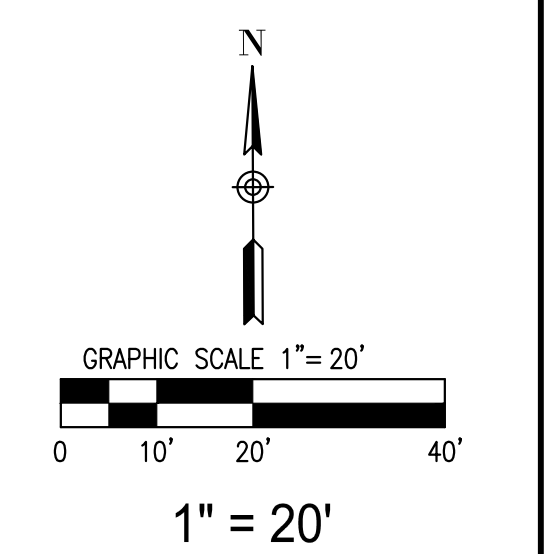
REFER TO THE PROJECT GEOTECHNICAL ENGINEERING REPORT PREPARED BY TESTING SERVICE CORPORATION DATED APRIL 7, 2023 FOR INFORMATION REGARDING THE EXISTING SOIL CONDITIONS AND PROPOSED SUBGRADE PREPARATION REQUIREMENTS.

GEOMETRIC NOTES:

1. ALL DIMENSIONS ARE MEASURED FROM FACE OF CURB OR CENTER OF PAVEMENT MARKING UNLESS OTHERWISE NOTED.
2. ALL CURB RADII ARE 4.5' UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL COORDINATE ALL SITE IMPROVEMENTS WITH ARCHITECTURAL PLANS.
4. ALL PROPOSED PAVEMENT MARKINGS SHALL BE 4" UNLESS OTHERWISE NOTED. PAVEMENT MARKINGS SHALL CONFORM TO ARTICLE 1095.02 OF THE I.D.O.T. STANDARD SPECIFICATIONS.
5. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. BUILDING DIMENSIONS AND DOORWAY LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
7. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
8. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED. SEE LANDSCAPE PLANS FOR PROPOSED TREE AND PLANTING REQUIREMENTS.
9. SEE GENERAL NOTES AND SPECIFICATIONS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
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1	10/18/23	ISSUED FOR REVIEW - 30%

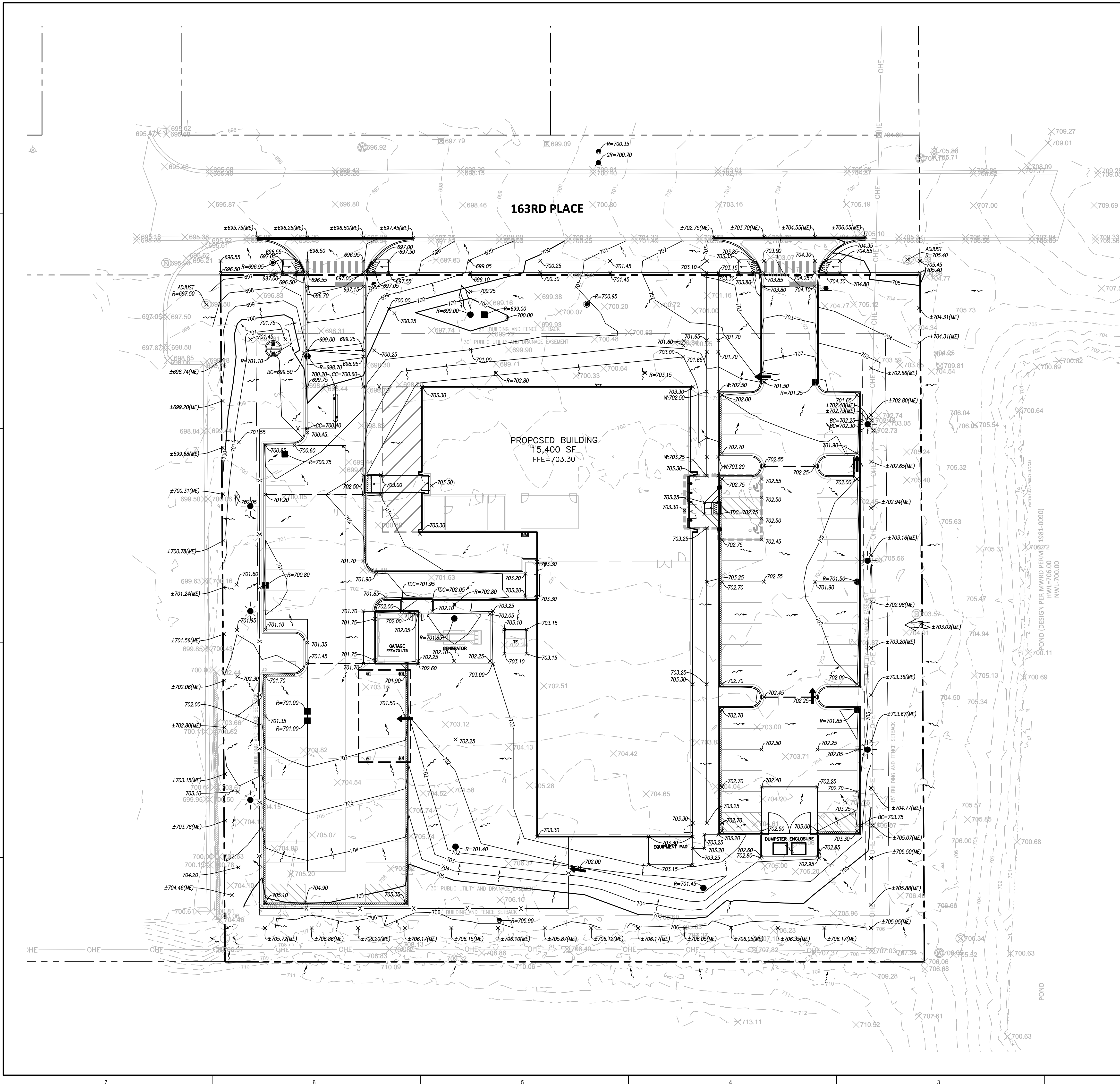
KEY PLAN



PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	

GRADING PLAN

DATE:	01/16/24	SHEET NO.	C4
REV:	3		



GRADING LEGEND:

EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	x XXX.XX
PROPOSED CONTOUR	---
PROPOSED SPOT ELEVATION	x XXX.XX
PROPOSED GROUND/FINISHED GRADE ELEVATION	x GXXXX.XX
PROPOSED TOP OF SIDEWALK ELEVATION	x WXXXX.XX
PROPOSED BACK OF CURB ELEVATION	x BC=XXX.XX
PROPOSED TOP OF DEPRESSED CURB	x TDC=XXX.XX
PROPOSED CURB CUT ELEVATION	x CC=XXX.XX
PROPOSED EDGE OF PAVEMENT ELEVATION	x EP=XXX.XX
PROPOSED RIM ELEVATION	x R=XXX.XX
PROPOSED ADJUSTED RIM ELEVATION	x ADJUST R=XXX.XX
PROPOSED GRADE RING ELEVATION	x GR=XXX.XX
MATCH EXISTING ELEVATION	x XXXXX.XX(ME)
PROPOSED DRAINAGE DIVIDE	---
DRAINAGE DIRECTION	---
OVERFLOW ROUTE	---
OFF-SITE OVERFLOW ROUTE	---

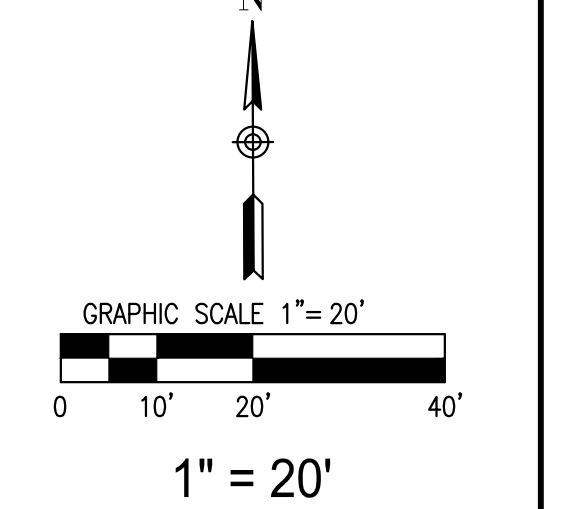
GRADING NOTES:

- ALL PROPOSED SPOT ELEVATIONS ARE TOP OF PAVEMENT OR FINISHED GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF SITE GRADING OPERATIONS.
- ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, SIDEWALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
- MAXIMUM CROSS SLOPES AND LONGITUDINAL SLOPES FOR ALL CONCRETE SIDEWALKS AND HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED 2% AND 5%, RESPECTIVELY.
- MAXIMUM SLOPES WITHIN THE HANDICAP ACCESSIBLE PARKING AREAS AND ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT EXCEED 2% IN ANY DIRECTION. HANDICAP ACCESSIBLE ROUTE DENOTED BY: -----
- MAXIMUM GRADE DIFFERENCE BETWEEN PAVEMENT SURFACES AND ADJACENT CONCRETE SIDEWALKS FOR THE HANDICAP ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT EXCEED 1/4" VERTICAL OR 1/2" WHEN BEVELED.
- CONTRACTOR SHALL COORDINATE EXTERIOR DOORWAY AND FINISH GRADE ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL PLANS. ALL HANDICAP ACCESSIBLE DOORWAY LOCATIONS REQUIRE AND EXTERIOR LANDING THAT IS A MINIMUM OF FIVE (5') FEET IN LENGTH WITH A SLOPE NOT EXCEEDING 2% IN ANY DIRECTION.
- CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING STORM SEWERS WITHIN THE PROJECT AREA DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION.
- ALL GREEN AREAS SHALL BE DRESSED WITH A MINIMUM OF 6" OF TOPSOIL AND PERMANENT SEEDING.
- SEE GENERAL NOTES AND SPECIFICATIONS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

REV	DATE	DESCRIPTION
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KEY PLAN



PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	UTILITY PLAN

UTILITY PLAN

DATE:	01/16/24	SHEET NO.	C5
REV:	3		

UTILITY NOTES:

- ALL UTILITY LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURES IN LINEAR FEET.
- ALL EXISTING UTILITY RIMS, GRADE RINGS, PEDESTALS, ETC. SHALL BE RAISED OR LOWERED AS REQUIRED TO MEET PROPOSED FINISHED GRADE.
- ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRUCTURES OR PIPING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE GOVERNING AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
- GRANULAR TRENCH BACKFILL MATERIAL, IDOT GRADATION CA-7, SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D1557, OVER ALL UTILITIES WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS, SIDEWALKS, ETC. GRANULAR TRENCH BACKFILL NOTED ON THE PLANS BY: _____
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL EXCAVATE AND FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO COMMENCING ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING SEWER SYSTEMS DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION.
- SEE GENERAL NOTES AND SPECIFICATIONS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS INCLUDING ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.

WATER MAIN NOTES:

WATER MAIN STRUCTURE SYMBOL LEGEND:
W = VALVE VAULT
PC = PRESSURE CONNECTION
FH = FIRE HYDRANT ASSEMBLY

- ALL WATER MAIN SHALL BE DIP CLASS 52, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL FIRE HYDRANT LEADS SHALL BE 6-INCH, CLASS 52 DIP UNLESS OTHERWISE NOTED ON THE PLANS.
- BRASS WEDGES FOR LOCATING WATER MAINS SHALL BE INSTALLED PER SECTION 41-2.05C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, AS AMENDED.
- MAINTAIN A MINIMUM OF 5.5'-FT OF COVER AS MEASURED FROM THE PROPOSED GRADE OVER THE WATER MAIN. MAINTAIN HORIZONTAL SEPARATION WITH OTHER UTILITIES PER IEPA REQUIREMENTS.

SANITARY SEWER NOTES

SANITARY STRUCTURE SYMBOL LEGEND:
S = SANITARY MANHOLE

ALL SANITARY MANHOLES SHALL HAVE THE FOLLOWING FRAME AND LID:
1C: IDOT TYPE 1 (CLOSED), EJIW 105021

- ALL SANITARY SEWER SHALL BE PVC SDR 26 UNLESS OTHERWISE NOTED ON THE PLANS.

STORM SEWER NOTES:

STORM SEWER STRUCTURE SYMBOL LEGEND:

I = INLET
CB = CATCH BASIN
RD = ROOF DRAIN
CO = CLEAN OUT

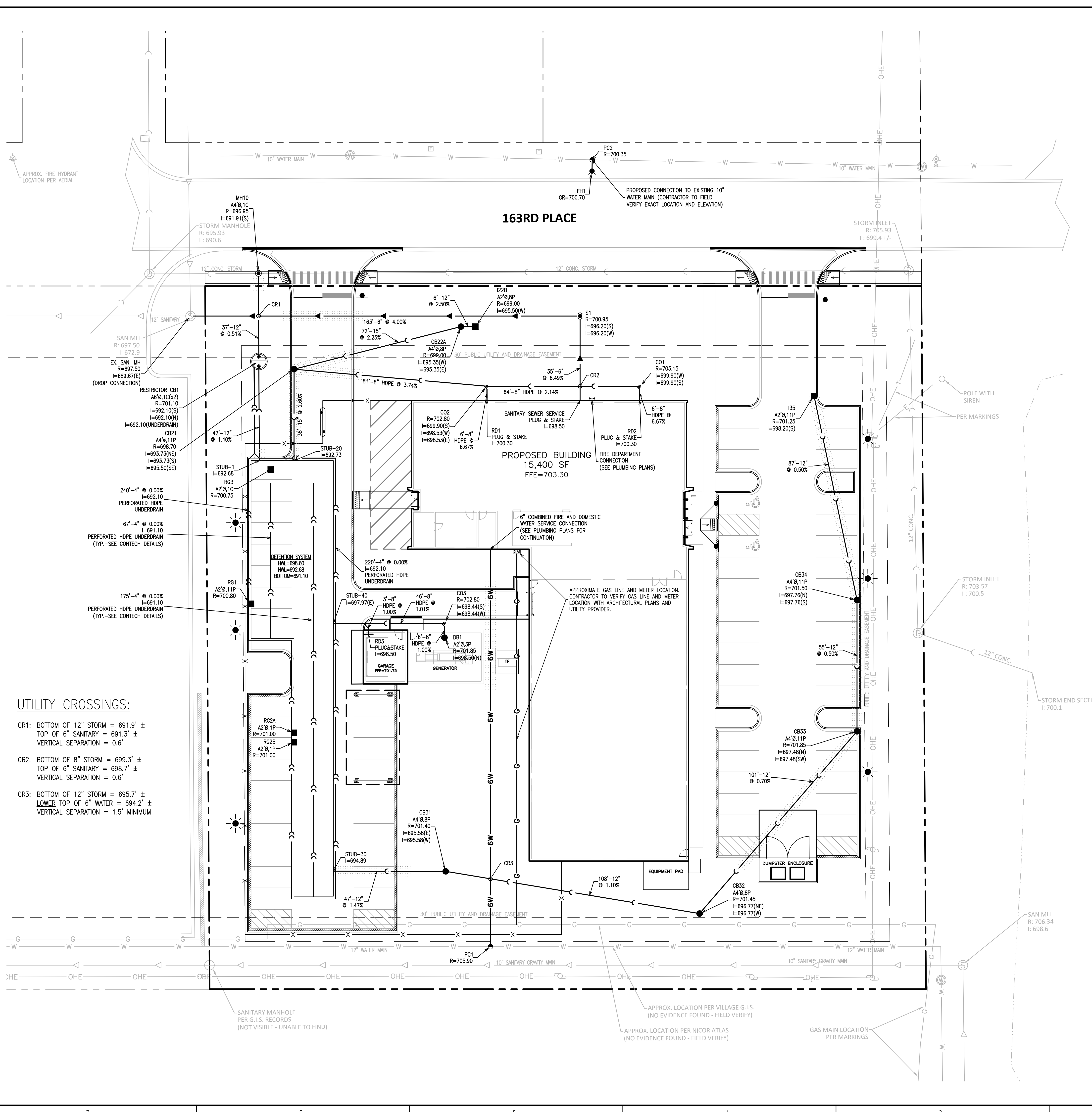
STORM SEWER FRAME AND GRATE/LID SYMBOL LEGEND:

1C: IDOT TYPE 1 (CLOSED), EJIW 105021
8P: IDOT TYPE 8, EJIW 6527 ("BEEHIVE GRATE")
11P: IDOT TYPE 11, EJIW 7210 (TYPE M2 GRATE)
3V: IDOT TYPE 3V, EJIW 7221V (TYPE M4 VANE GRATE AND T1 BACK)

EXAMPLE:

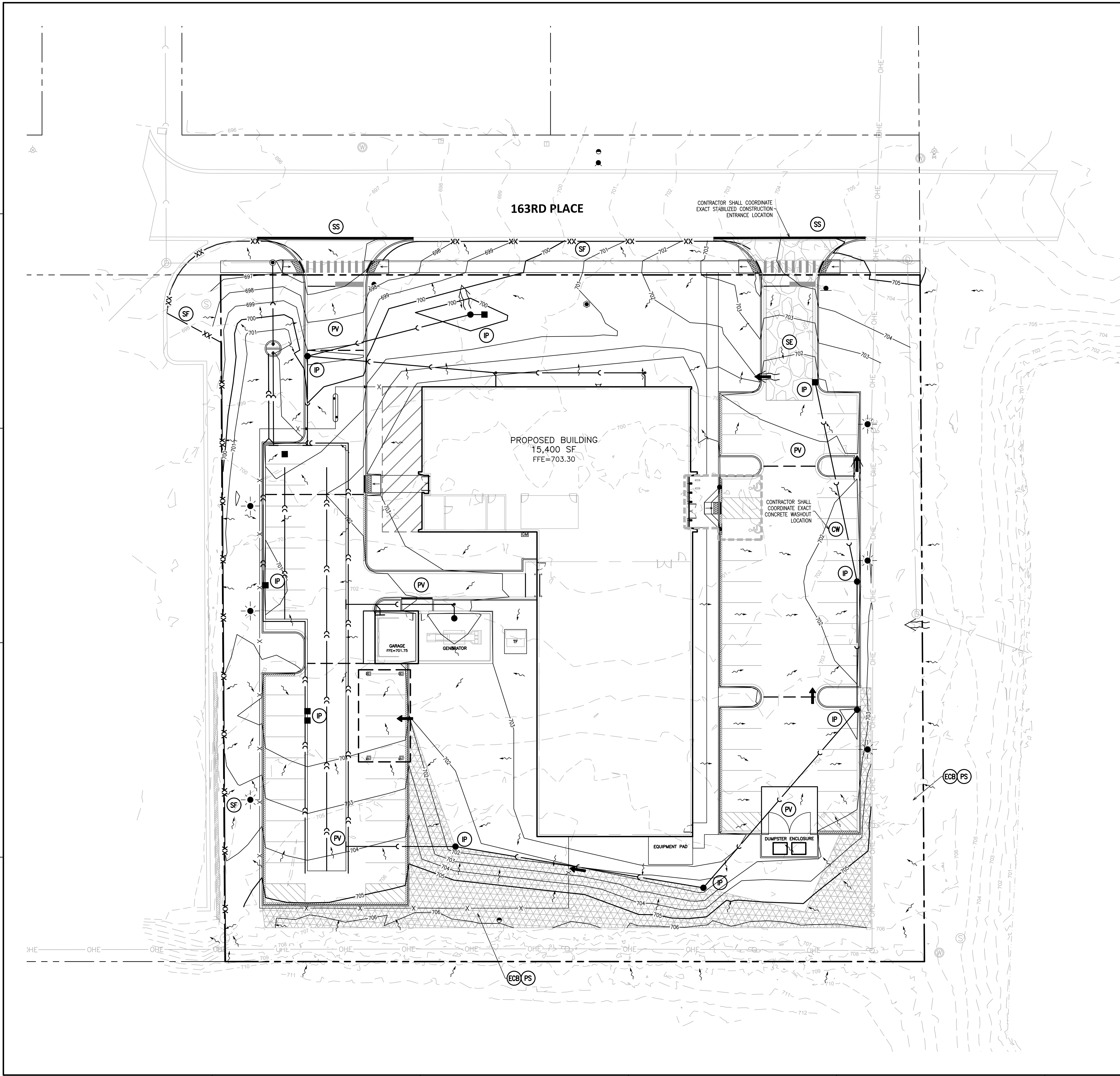
MH3
A48,1P
MANHOLE #3, TYPE A, 4' DIAMETER, IDOT TYPE 1 FRAME AND GRATE (OPEN)

- ALL 12" AND 15" STORM SEWER SHALL BE REINFORCED CONCRETE CULVERT PIPE (RCP) CLASS V. ALL OTHER STORM SEWER SHALL BE RCP CLASS IV ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C-443, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STORM SEWER UNDERDRAIN PIPE SHALL BE PERFORATED ADS N-12 OR APPROVED EQUAL UNLESS OTHERWISE NOTED
- ALL STORM SEWER CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE - DRAINS TO WATERWAYS"



UTILITY CROSSINGS:

- CR1: BOTTOM OF 12" STORM = 691.9' ±
TOP OF 6" SANITARY = 691.3' ±
VERTICAL SEPARATION = 0.6'
- CR2: BOTTOM OF 8" STORM = 699.3' ±
TOP OF 6" SANITARY = 698.7' ±
VERTICAL SEPARATION = 0.6'
- CR3: BOTTOM OF 12" STORM = 695.7' ±
LOWER TOP OF 6" WATER = 694.2' ±
VERTICAL SEPARATION = 1.5' MINIMUM



EROSION CONTROL LEGEND:

- (IP) INLET PROTECTION
- (SF) SILT FENCE
- (SE) STABILIZED CONSTRUCTION ENTRANCE
- (CW) CONCRETE WASHOUT
- (ECB) EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75)
- (PS) PERMANENT SEEDING (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
- (PV) PAVEMENT
- (SS) STREET SWEEPING

EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF SITE GRADING OR DEMOLITION OPERATIONS.
2. CONTRACTOR SHALL IMPLEMENT APPROPRIATE DUST CONTROL MEASURES AS NECESSARY.
3. EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS ANTICIPATED BY THE ENGINEER. ADDITIONAL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AS WARRANTED BY SITE CONDITIONS OR AS DIRECTED BY THE ENGINEER AND/OR PROJECT GOVERNING AUTHORITIES.
4. SEE GENERAL NOTES AND SPECIFICATIONS SHEETS AND STORMWATER POLLUTION PREVENTION PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

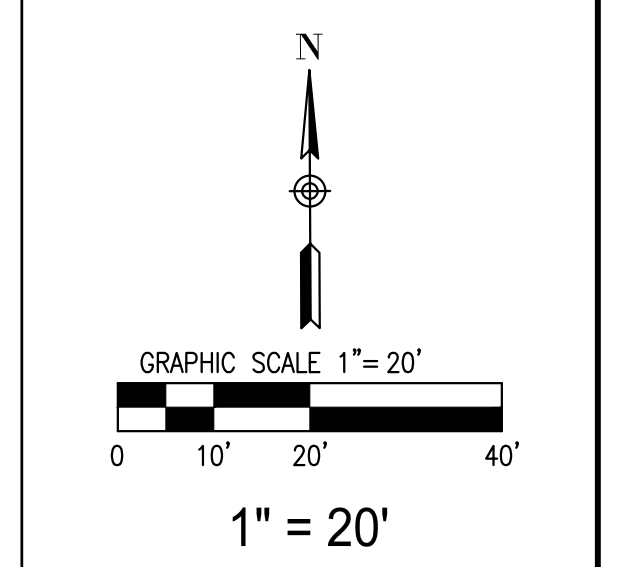
SWPPP CONSTRUCTION SCHEDULE:

1. OBTAIN ALL APPLICABLE SITE PERMITS AND THOROUGHLY REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND EROSION CONTROL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
2. INSTALL PERIMETER SEDIMENT CONTROL MEASURES (I.E. SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE).
3. INSTALL INLET PROTECTION DEVICES FOR EXISTING STORM SEWER INLETS AND DRAINAGE STRUCTURES.
4. PERFORM STORMWATER POLLUTION PREVENTION SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIST THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP.
 - 4.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.
 - 4.3. COPIES OF THE WEEKLY INSPECTION REPORT SHALL BE SUBMITTED TO THE PUBLIC WORKS SUPERINTENDENT AND THE VILLAGE ENGINEER.
5. BEGIN SITE CLEARING AND GRADING OPERATIONS.
6. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN SEVEN (7) DAYS.
7. INSTALL NEW STORM SEWERS AND OTHER SITE UTILITIES AS INDICATED ON THE PLANS.
8. INSTALL TEMPORARY CONCRETE WASHOUT PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK ON SITE.
9. BEGIN SITE PAVING OPERATIONS (I.E. DRIVES, PARKING LOTS, ETC.)
10. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED FOR AREAS ADJACENT TO THE PROJECT SITE.
11. INSTALL BUILDING FOUNDATIONS AND COMPLETE BUILDING CONSTRUCTION AND REMAINING SITE IMPROVEMENTS INDICATED ON THE PLANS.
12. PERFORM FINAL GRADING OPERATIONS AND ESTABLISH PERMANENT VEGETATIVE COVER IN ALL LANDSCAPED AREAS.
13. REMOVE ALL TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.

ISSUE ISSUED FOR REVIEW - 90%

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

KEY PLAN

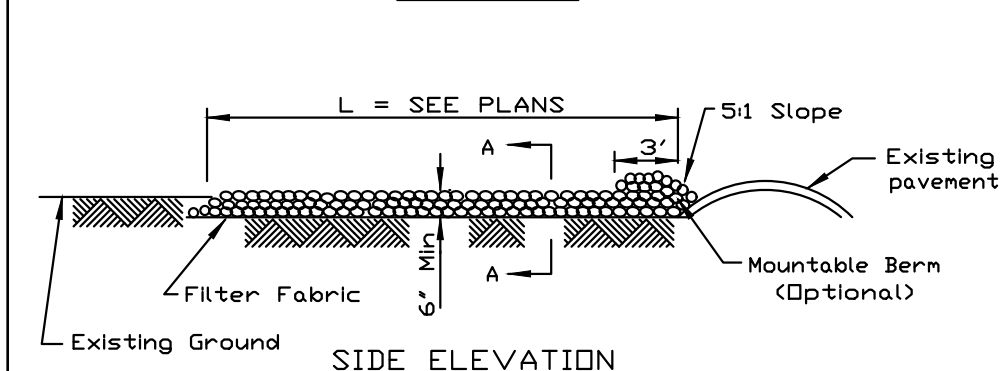
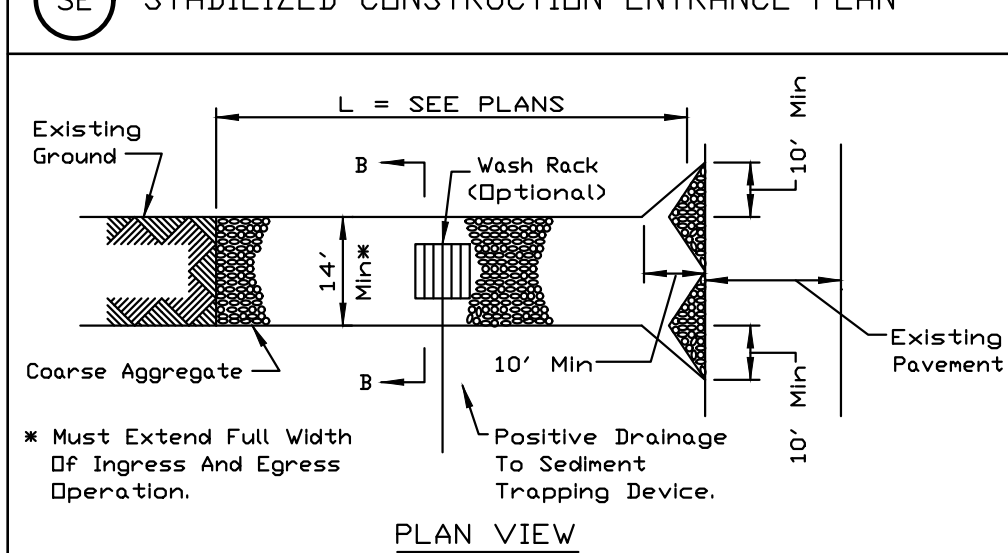


PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	

EROSION CONTROL PLAN

DATE:	01/16/24	SHEET NO.	C6
REV:	3		

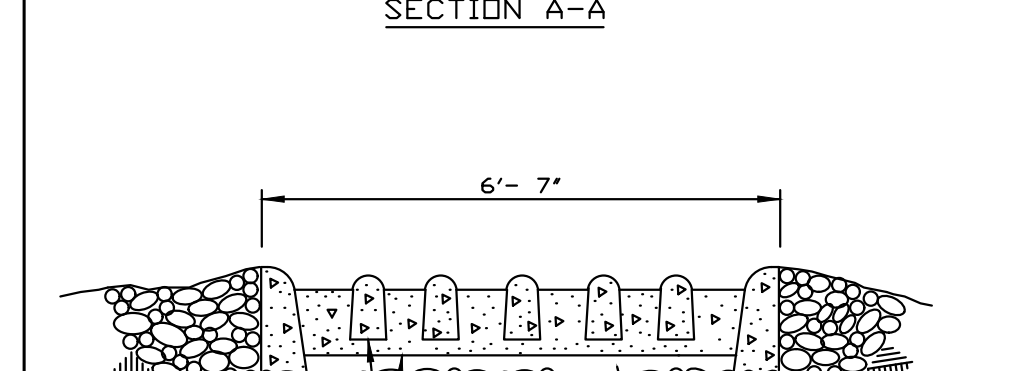
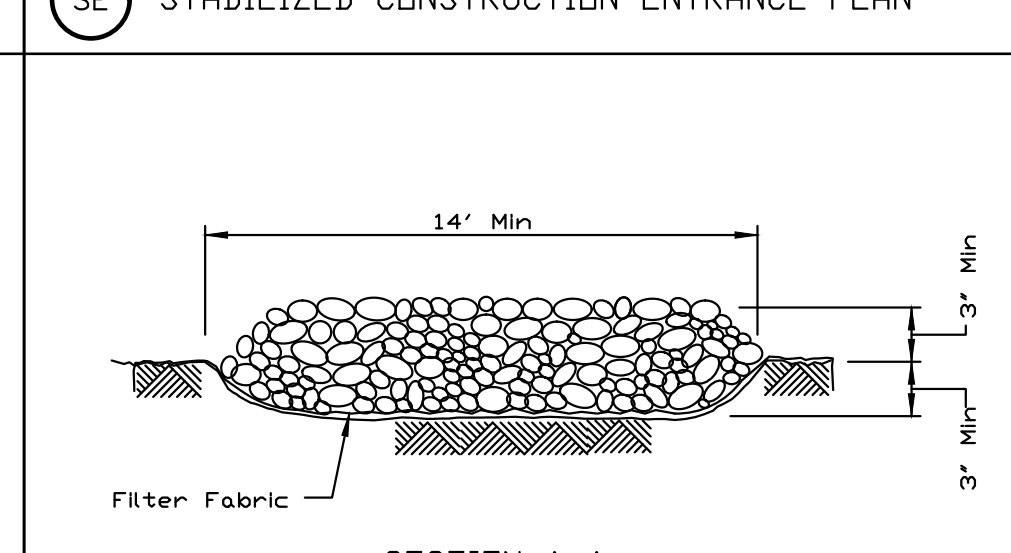
SE STABILIZED CONSTRUCTION ENTRANCE PLAN



- NOTES:**
- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
 - Rock or retained concrete shall meet one of the following IDOT coarse aggregate gradation: CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 - Any drainage facilities required because of washing shall be constructed according to manufacturer's specifications.
 - If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-630	REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-630
Checked _____ Date _____		SHEET 1 OF 2	Checked _____ Date _____		SHEET 2 OF 2
Approved _____ Date _____		DATE 8-18-24	Approved _____ Date _____		DATE 8-18-24

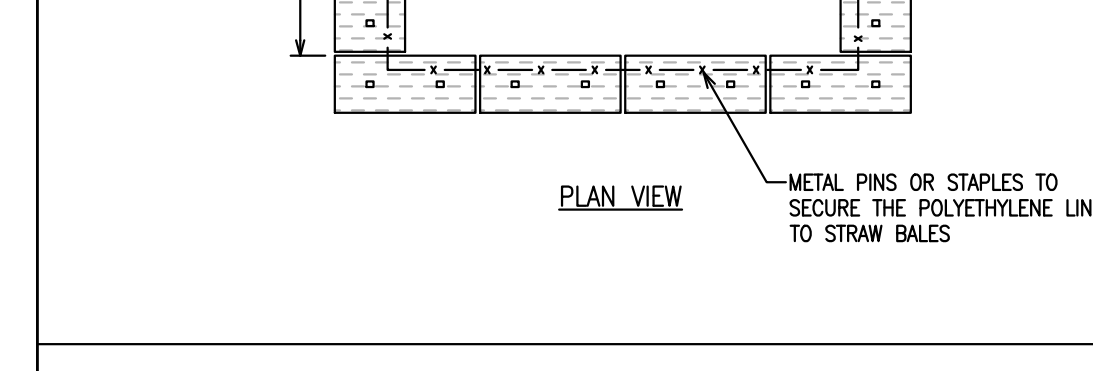
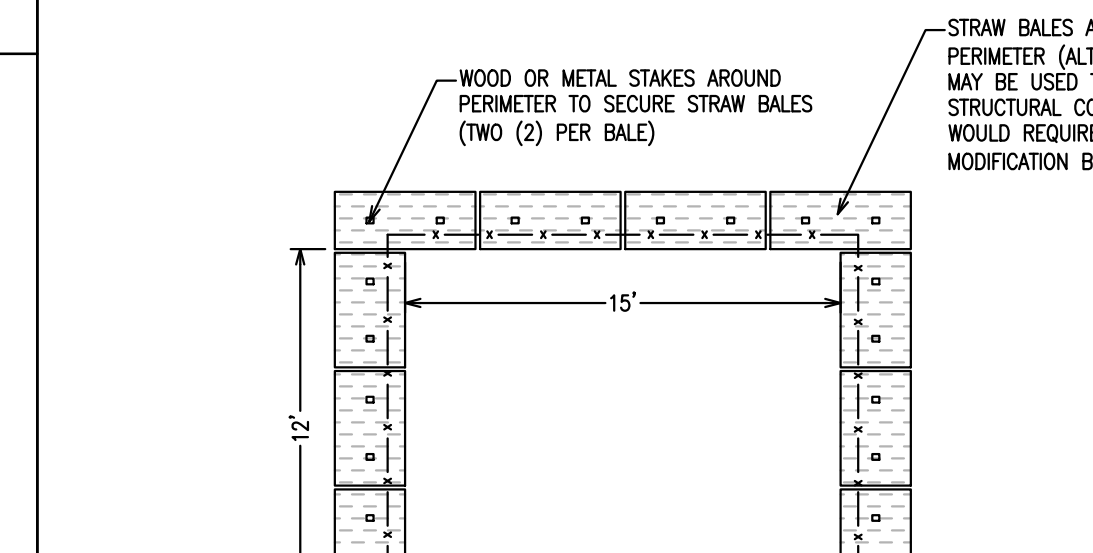
SE STABILIZED CONSTRUCTION ENTRANCE PLAN



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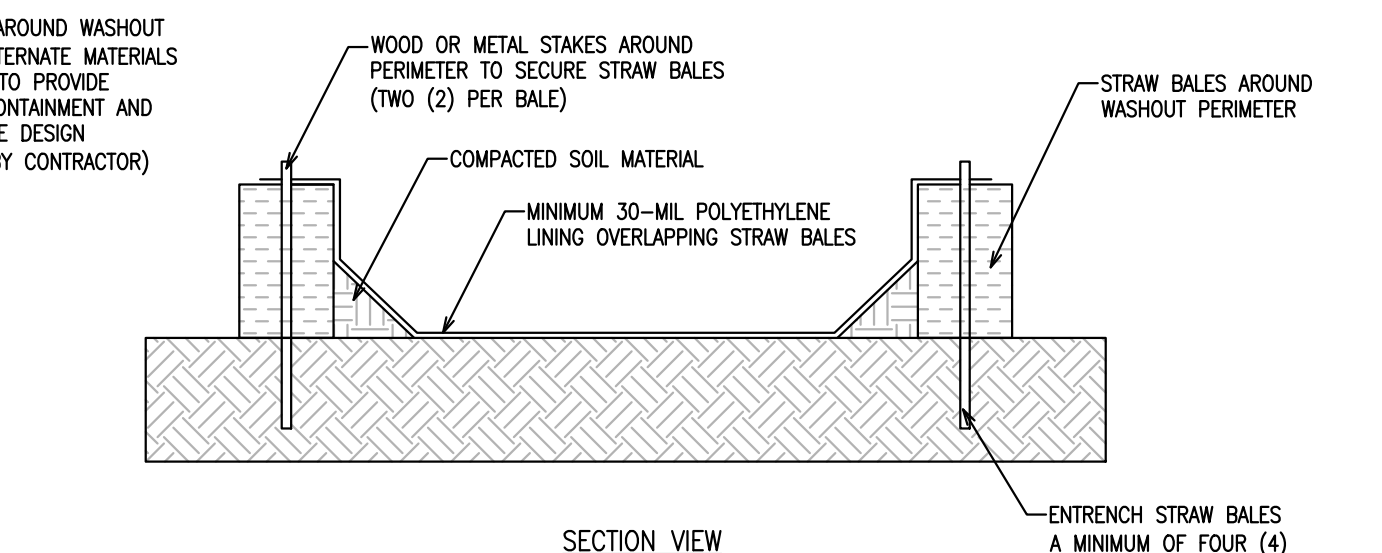
REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-630	REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-630
Checked _____ Date _____		SHEET 1 OF 2	Checked _____ Date _____		SHEET 2 OF 2
Approved _____ Date _____		DATE 8-18-24	Approved _____ Date _____		DATE 8-18-24

CW CONCRETE WASHOUT DETAIL



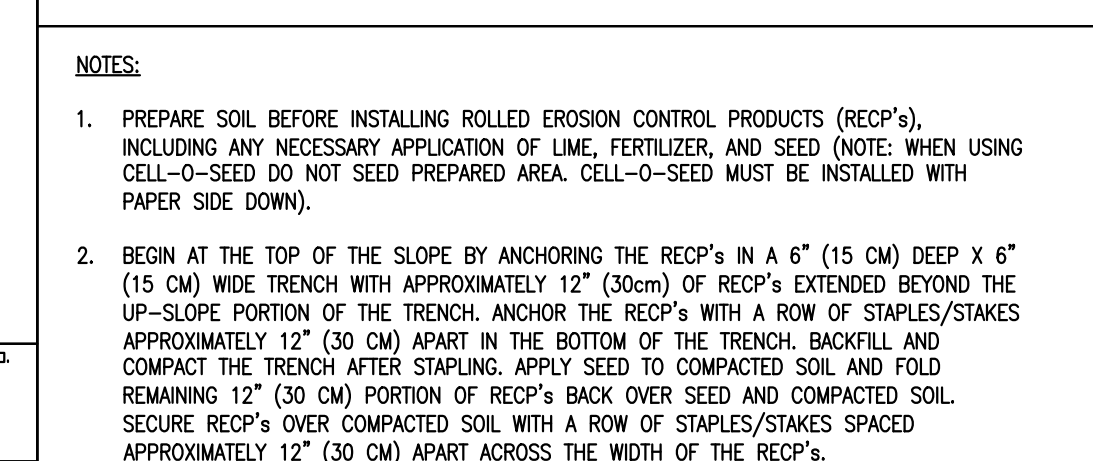
- NOTES:**
- CONTRACTOR MAY PROVIDE PREFABRICATED CONCRETE WASHOUT BIN WITH MINIMUM 30-MIL POLYETHYLENE LINER IN LIEU OF DETAIL SHOWN.
 - STOP WASHING OUT CONCRETE IF WATER IS OBSERVED RUNNING OFF THE DESIGNATED AREA OR IF THE CONTAINMENT SYSTEM IS LEAKING OR OVERFLOWING AND INEFFECTIVE.
 - INSPECT DAILY AND AFTER EACH STORM EVENT, INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
 - THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR ALL CONCRETE WASTE.

CW CONCRETE WASHOUT DETAIL



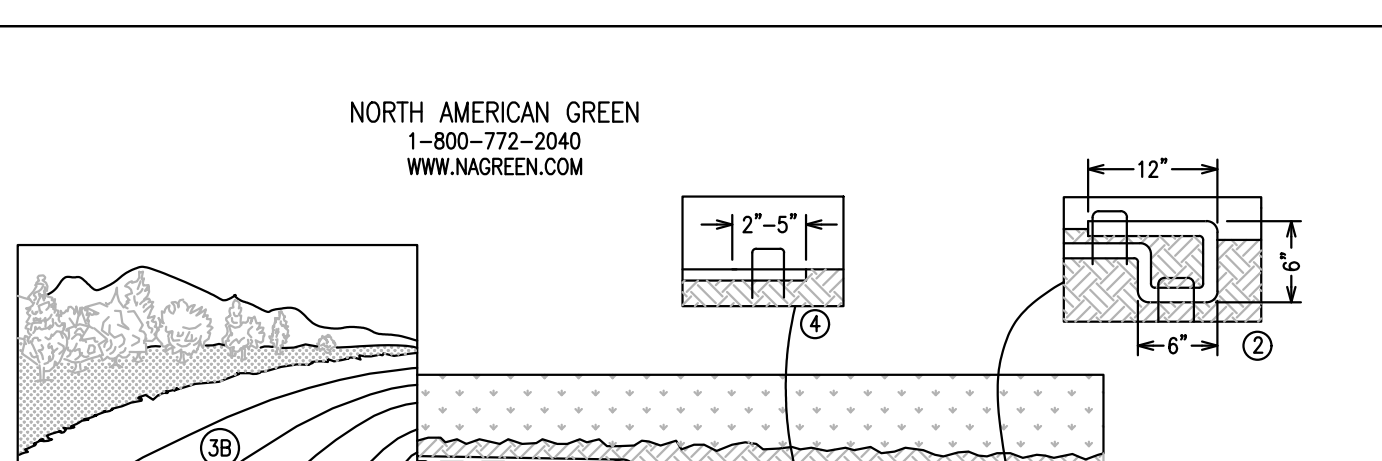
- NOTES:**
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED (NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN).
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM-12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPICED UP THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
 - ONLY BIODEGRADABLE STAPLES SHALL BE USED (NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S).

ECB EROSION CONTROL BLANKET DETAIL



- NOTES:**
- TEMPORARY SILT FENCE SHALL BE INSTALLED AROUND PROJECT PERIMETER PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 - GEOTEXTILE FILTER FABRIC SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - FENCE POSTS SHALL BE EITHER STANDARD STEEL OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF THREE (3) SQUARE INCHES.

ECB EROSION CONTROL BLANKET DETAIL



- NOTES:**
- PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 - ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 - DRIVE BOTH POSTS A MINIMUM OF EIGHTEEN (18) INCHES INTO THE GROUND AND BURY THE FLAP.

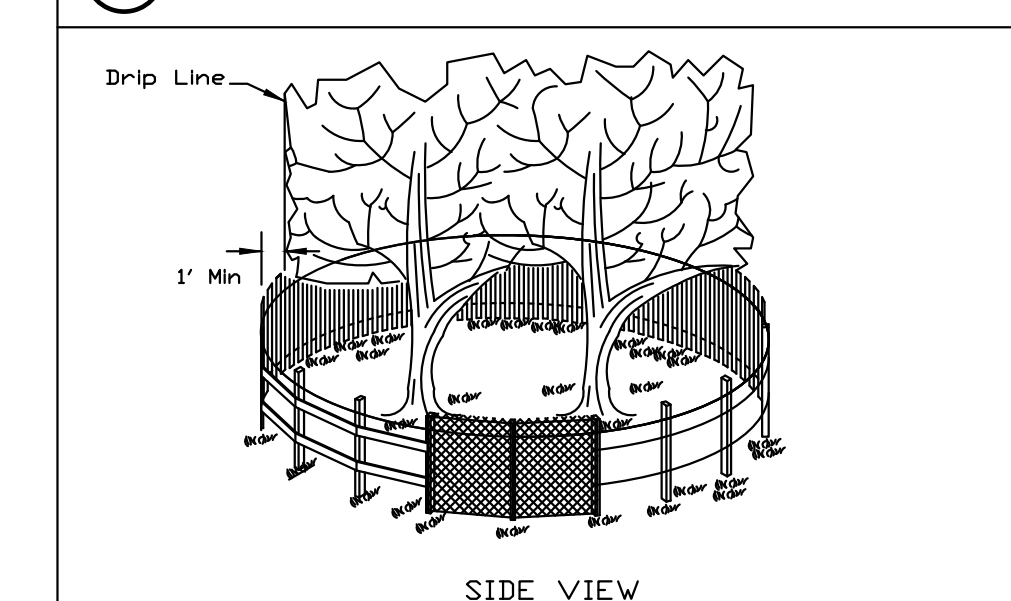
TP TREE PROTECTION - FENCING



- NOTES:**
- The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
 - Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
 - The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690	REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690
Checked _____ Date _____		SHEET 1 OF 1	Checked _____ Date _____		SHEET 1 OF 1
Approved _____ Date _____		DATE 4-7-24	Approved _____ Date _____		DATE 4-7-24

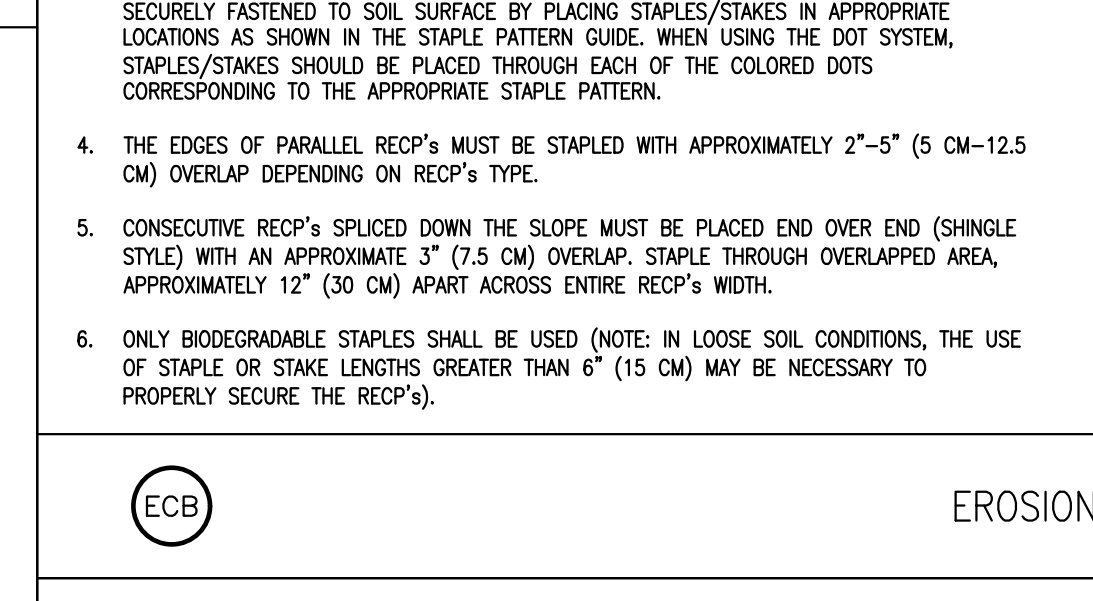
SF SILT FENCE DETAIL



- INSTALLATION PROCEDURE:**
- REMOVE GRATE.
 - DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
 - REPLACE GRATE.

REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690	REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690
Checked _____ Date _____		SHEET 1 OF 1	Checked _____ Date _____		SHEET 1 OF 1
Approved _____ Date _____		DATE 4-7-24	Approved _____ Date _____		DATE 4-7-24

IP INLET PROTECTION DETAIL



- INSTALLATION PROCEDURE:**
- REMOVE GRATE.
 - DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
 - REPLACE GRATE.

REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690	REFERENCE Project Designed _____ Date _____		STANDARD DWG. NO. IL-690
Checked _____ Date _____		SHEET 1 OF 1	Checked _____ Date _____		SHEET 1 OF 1
Approved _____ Date _____		DATE 4-7-24	Approved _____ Date _____		DATE 4-7-24



Village of
Orland Park
Illinois

POLICE DEPARTMENT
FIRING RANGE AND EOC
FACILITY

10609 163rd St. Orland Park, IL 60467



**PLANNING DIVISION
APPROVED**

Case No: 2023-0508

Date: 12/19/2023

W/Conditions: Yes

W/Out Conditions:

VILLAGE OF ORLAND PARK

ISSUE
ISSUED FOR REVIEW - 90%

3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%
REV	DATE	DESCRIPTION

KEY PLAN

N.T.S.

PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	STORMWATER POLLUTION PREVENTION PLAN

DATE: 01/16/24
REV: 3

SHEET NO: C7.1

3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

REV	DATE	DESCRIPTION
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KEY PLAN

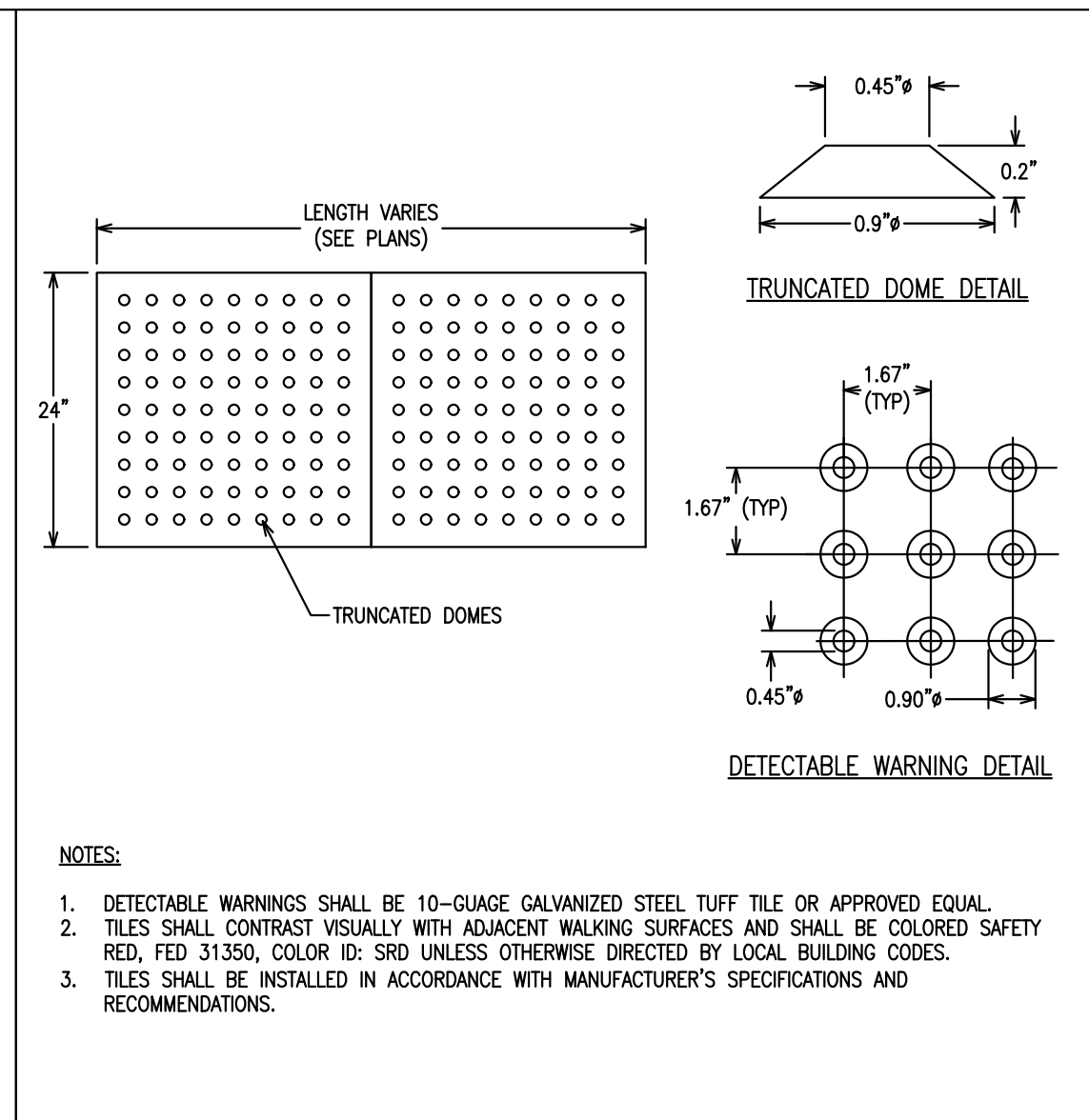
N.T.S.

PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--

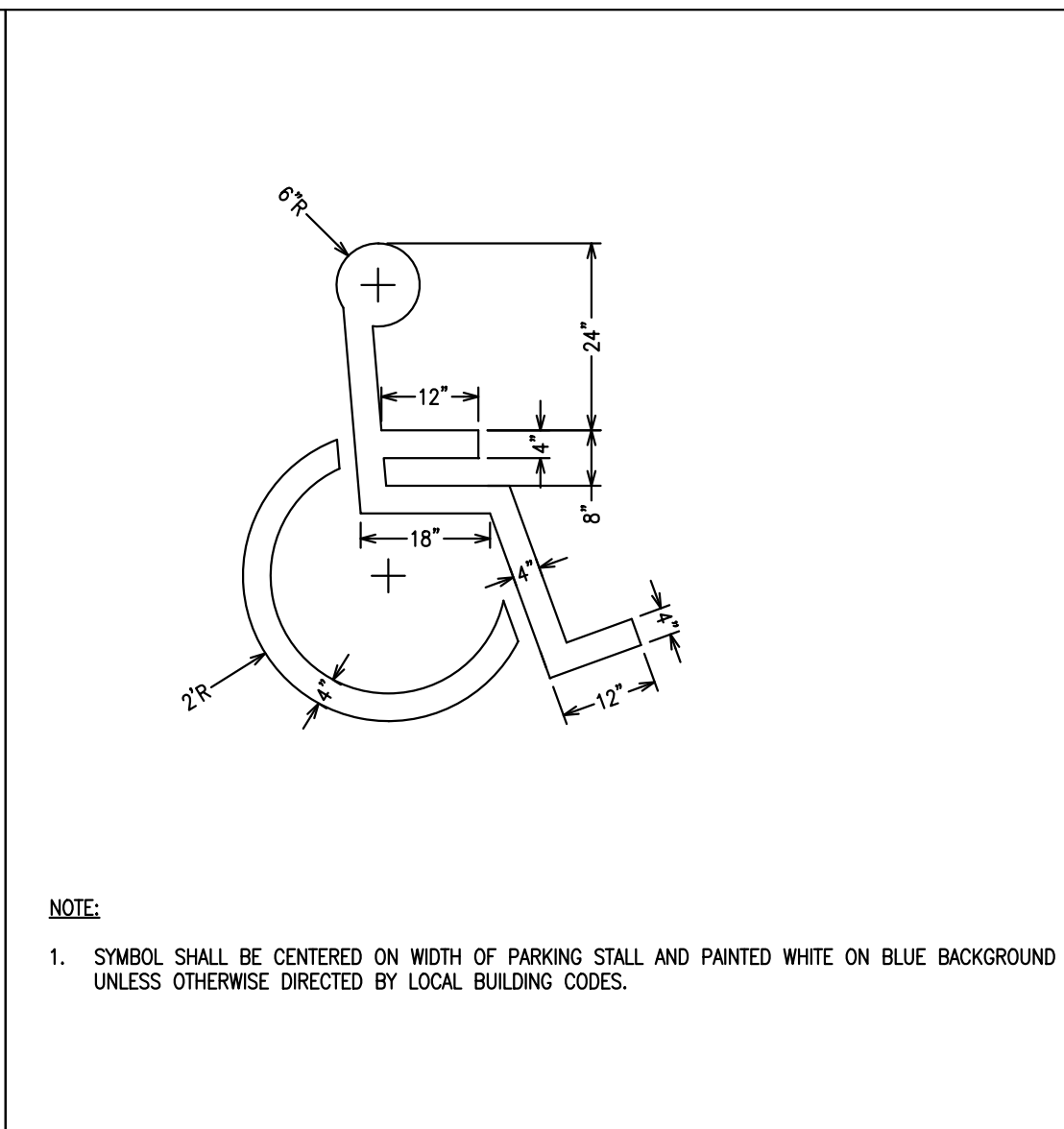
SHEET TITLE

DETAILS

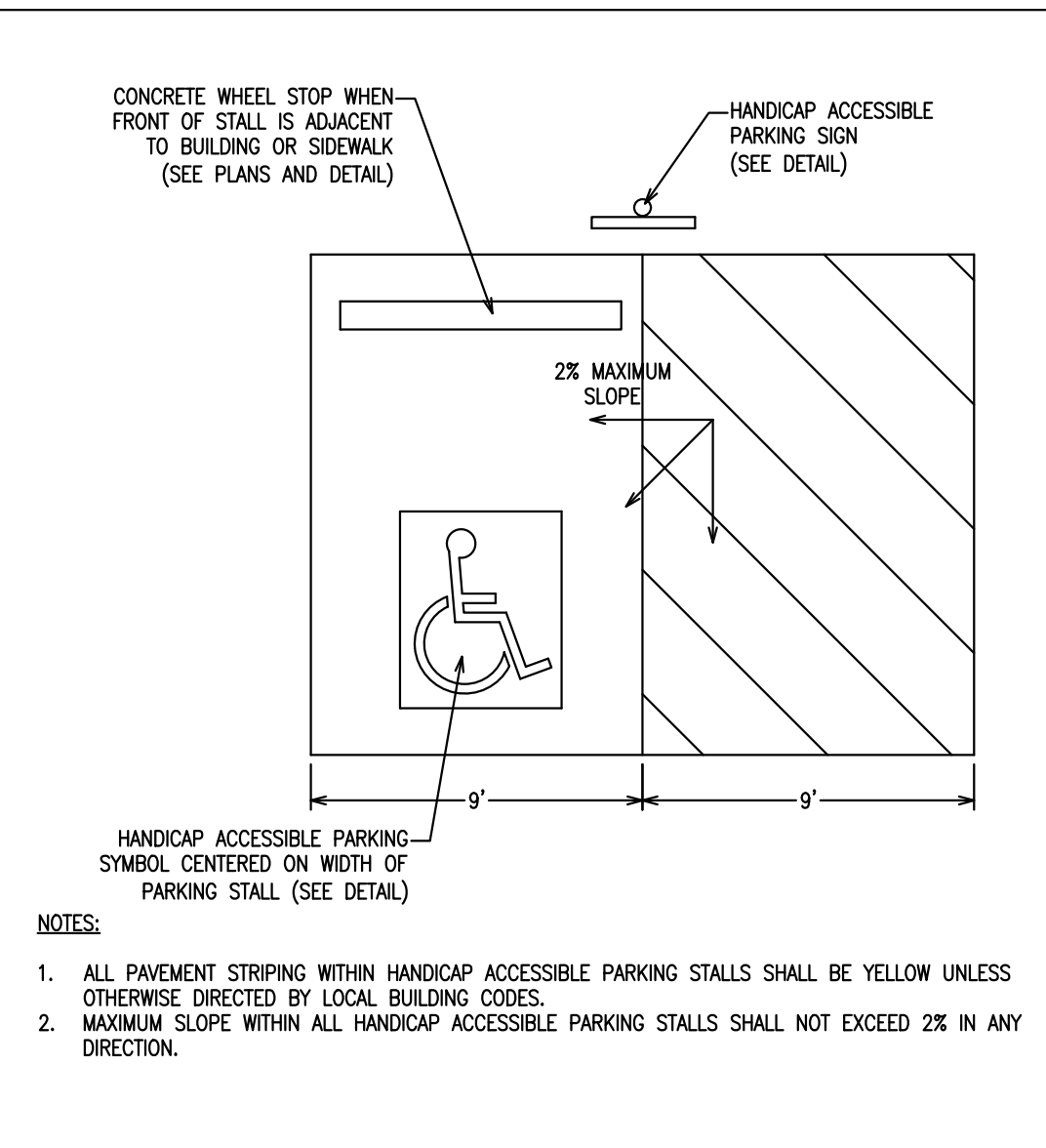
DATE:	01/16/24	SHEET NO.	C8.0
REV:	3		



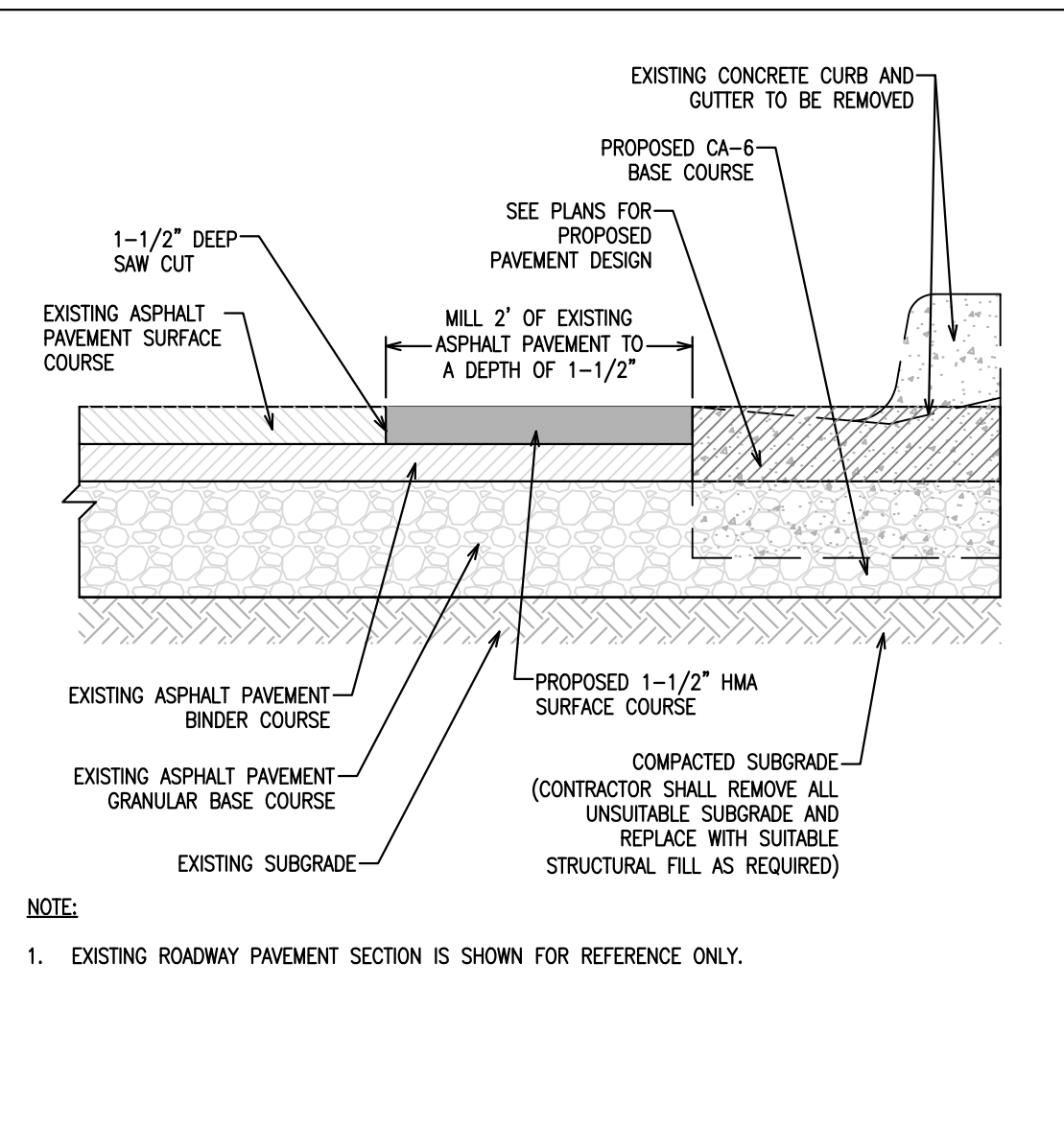
DETECTABLE WARNING DETAIL



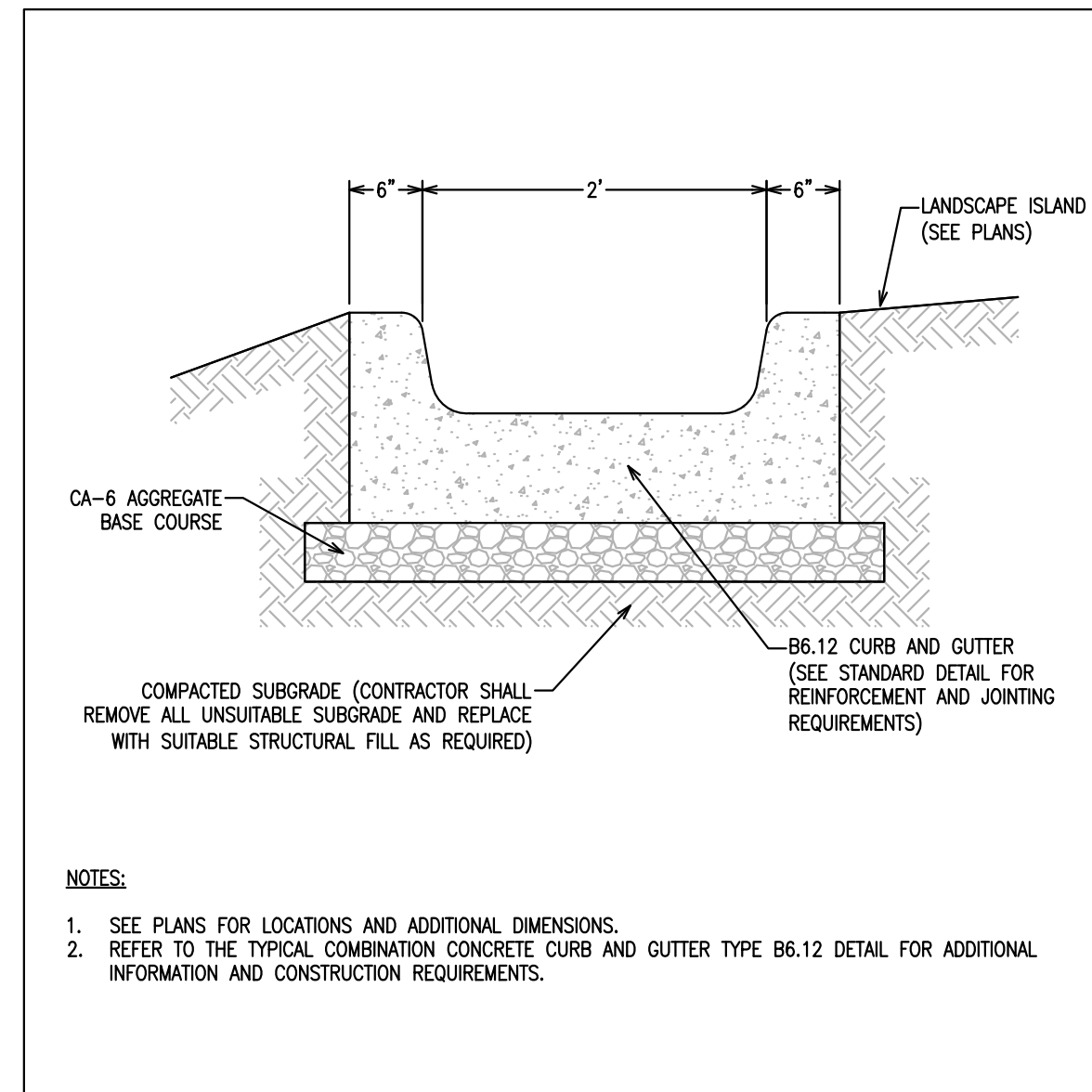
HANDICAP ACCESSIBLE PARKING SYMBOL DETAIL



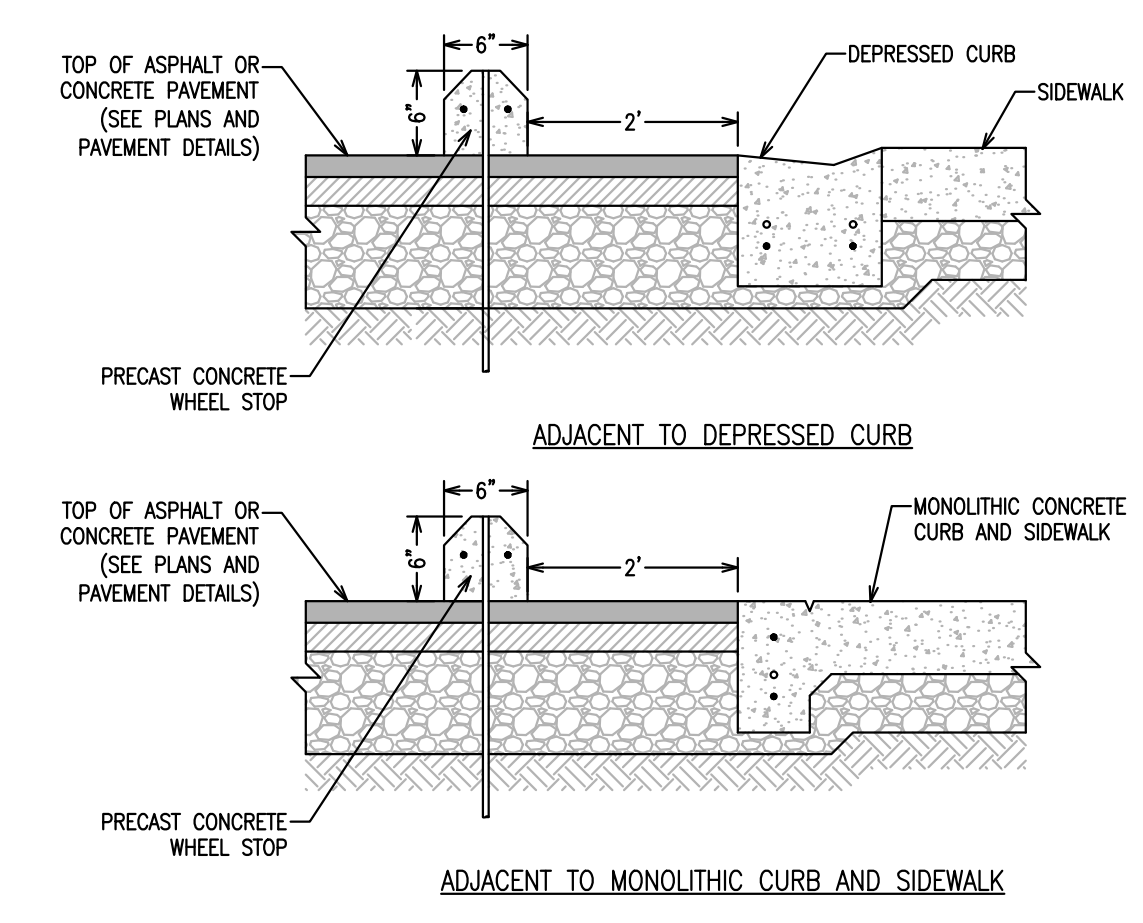
HANDICAP ACCESSIBLE PARKING STALL DETAIL



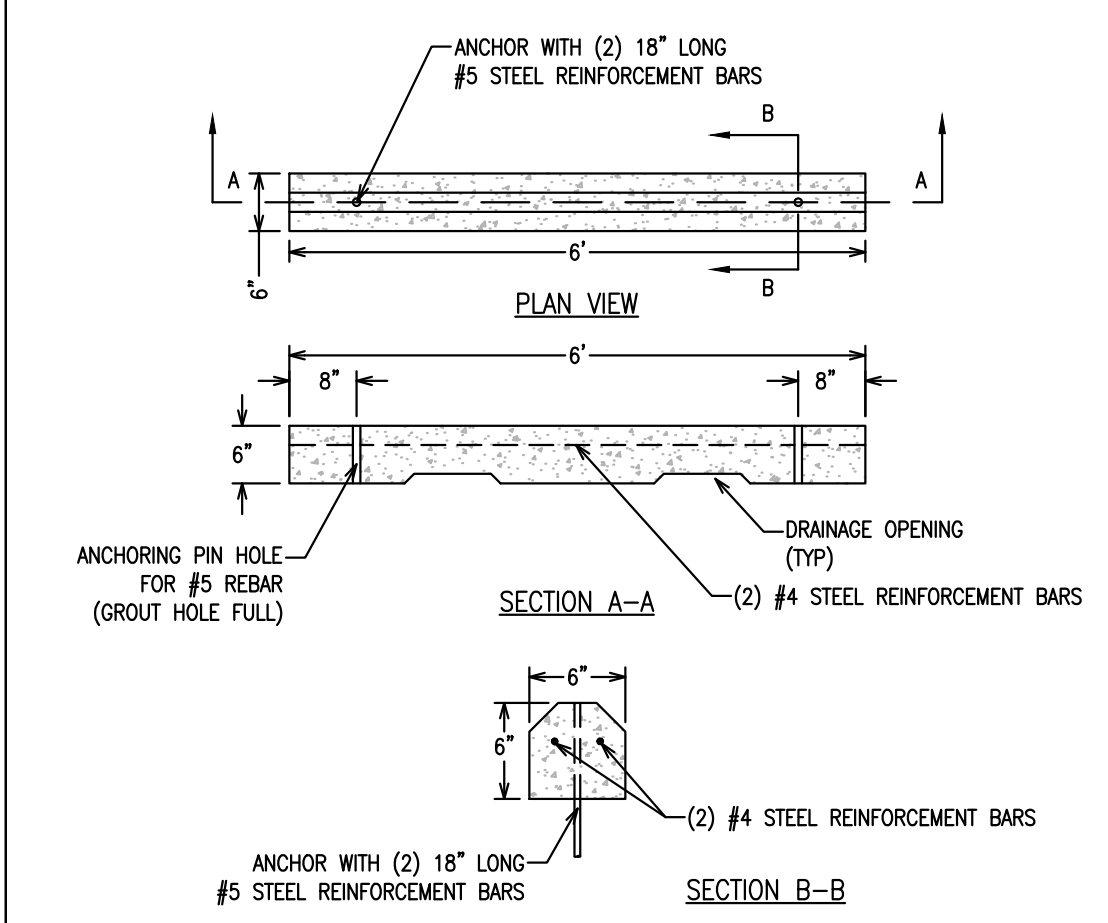
PAVEMENT PATCHING AT CURB AND GUTTER REMOVAL DETAIL



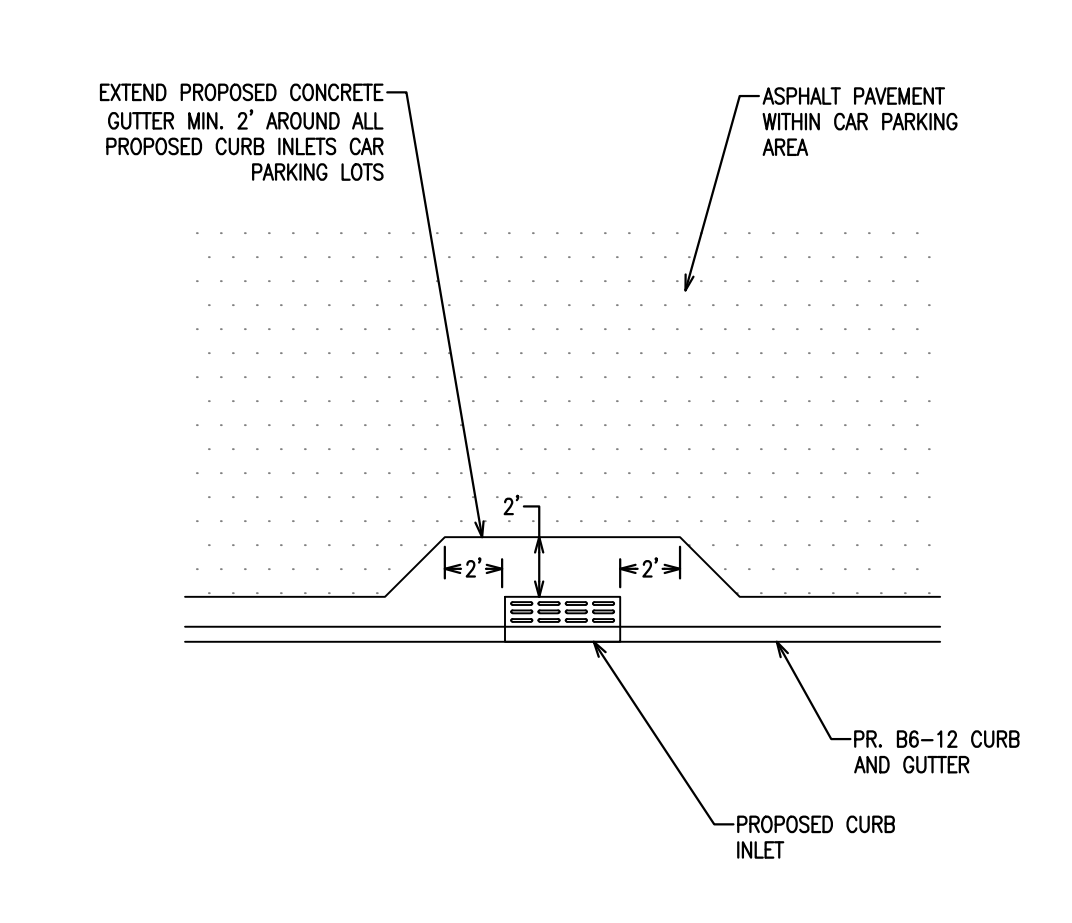
CURB SCUPPER DETAIL



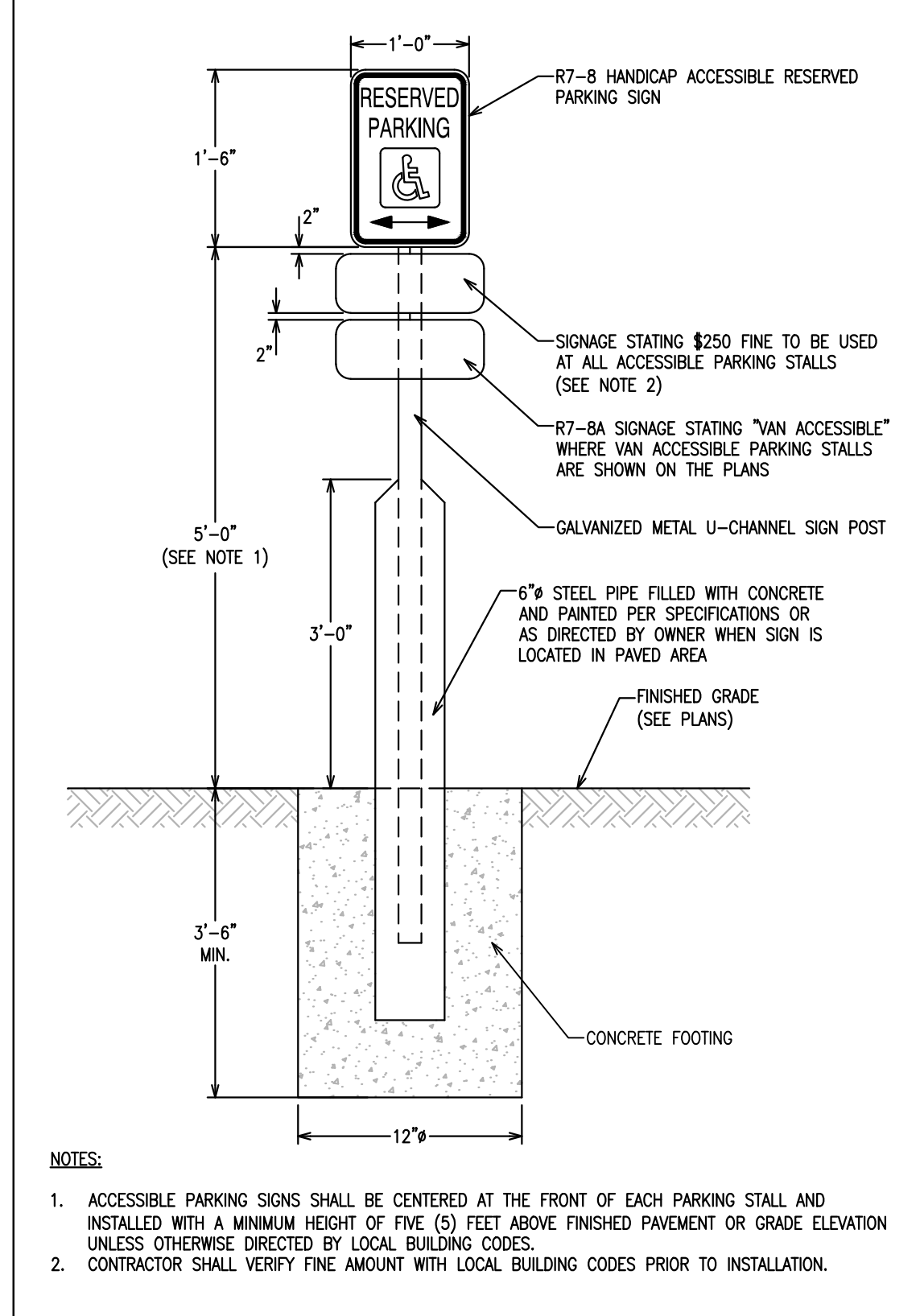
CONCRETE WHEEL STOP DETAIL



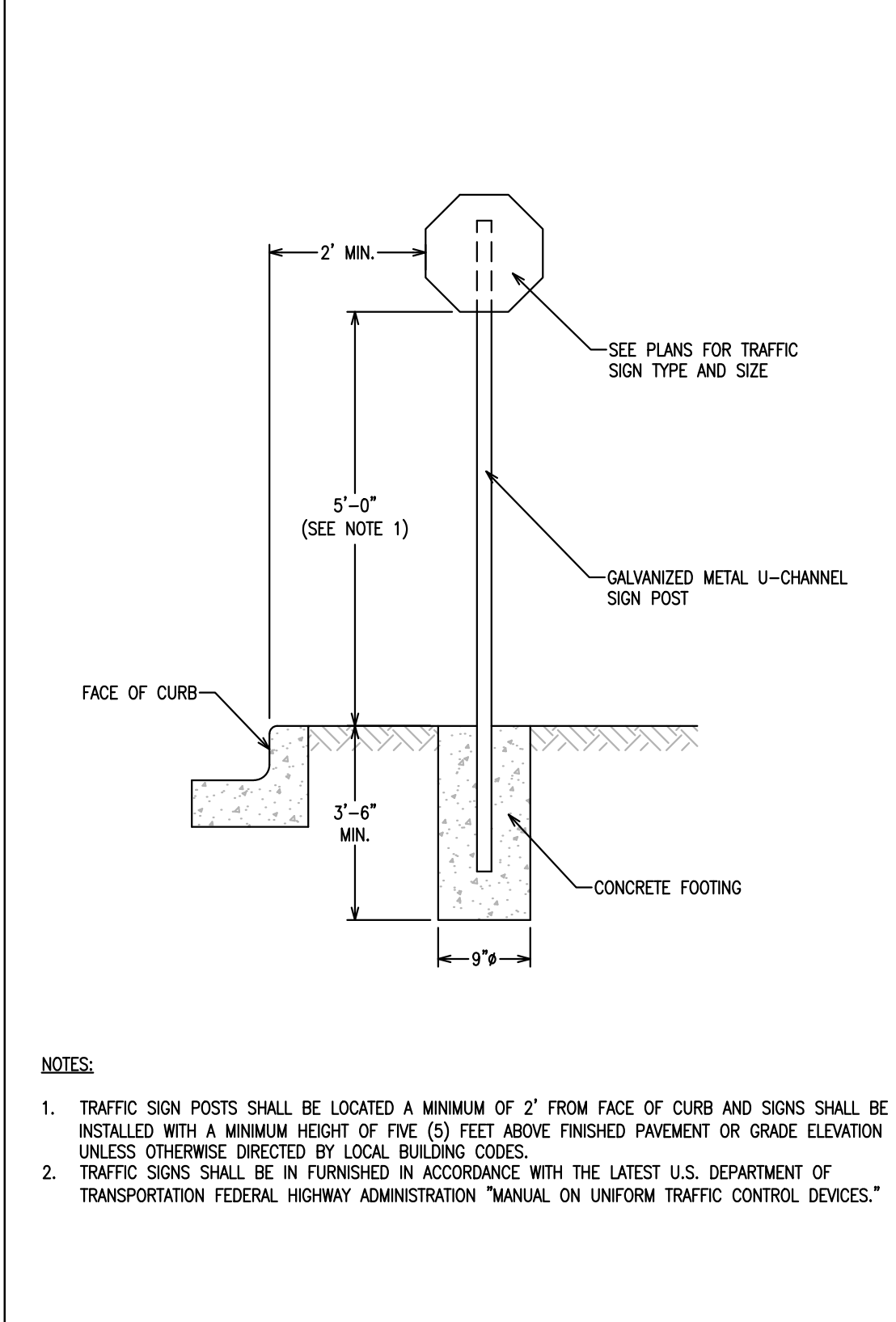
INLET APRON DETAIL



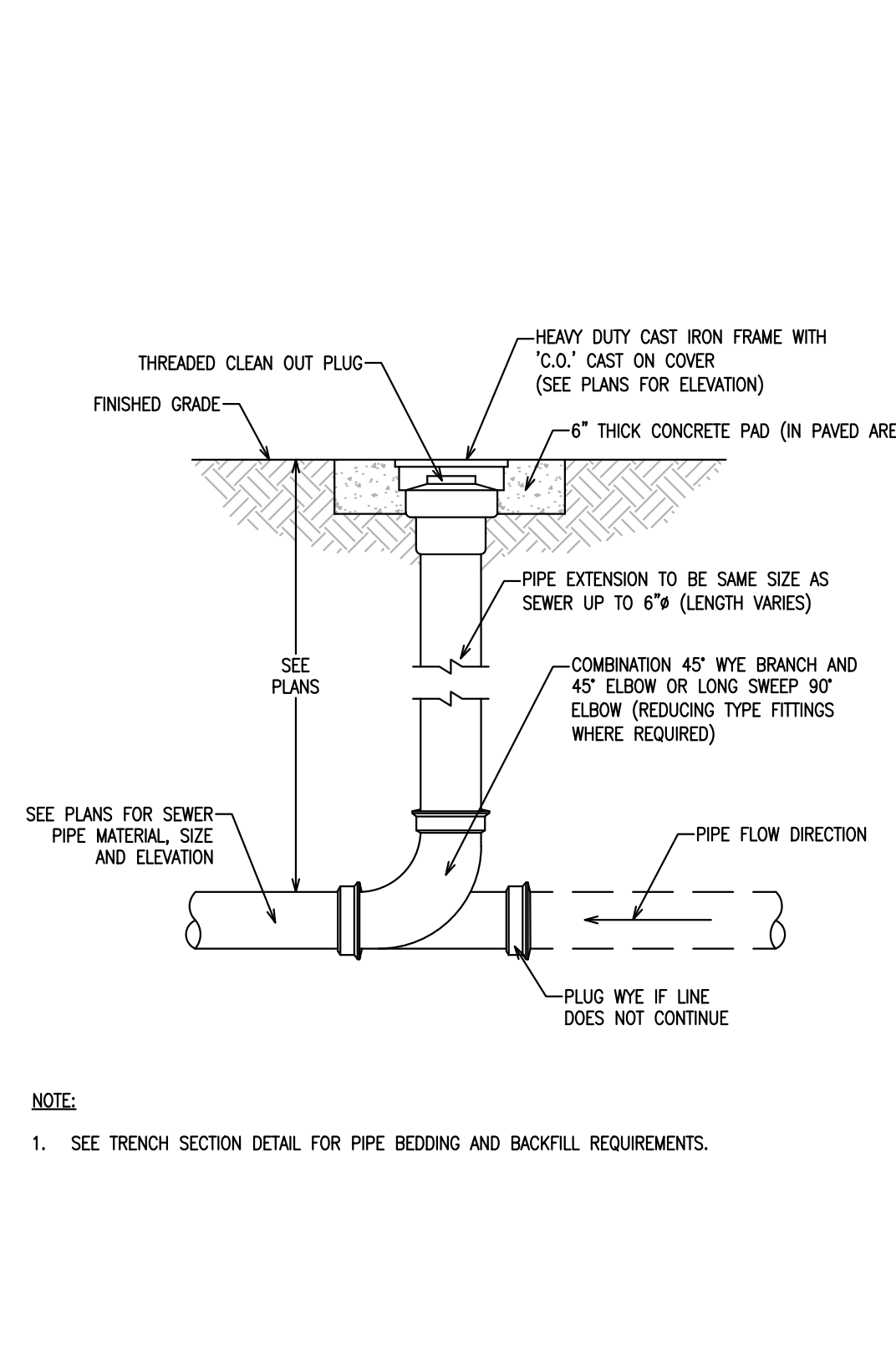
ROOF DRAIN WYE CONNECTION DETAIL



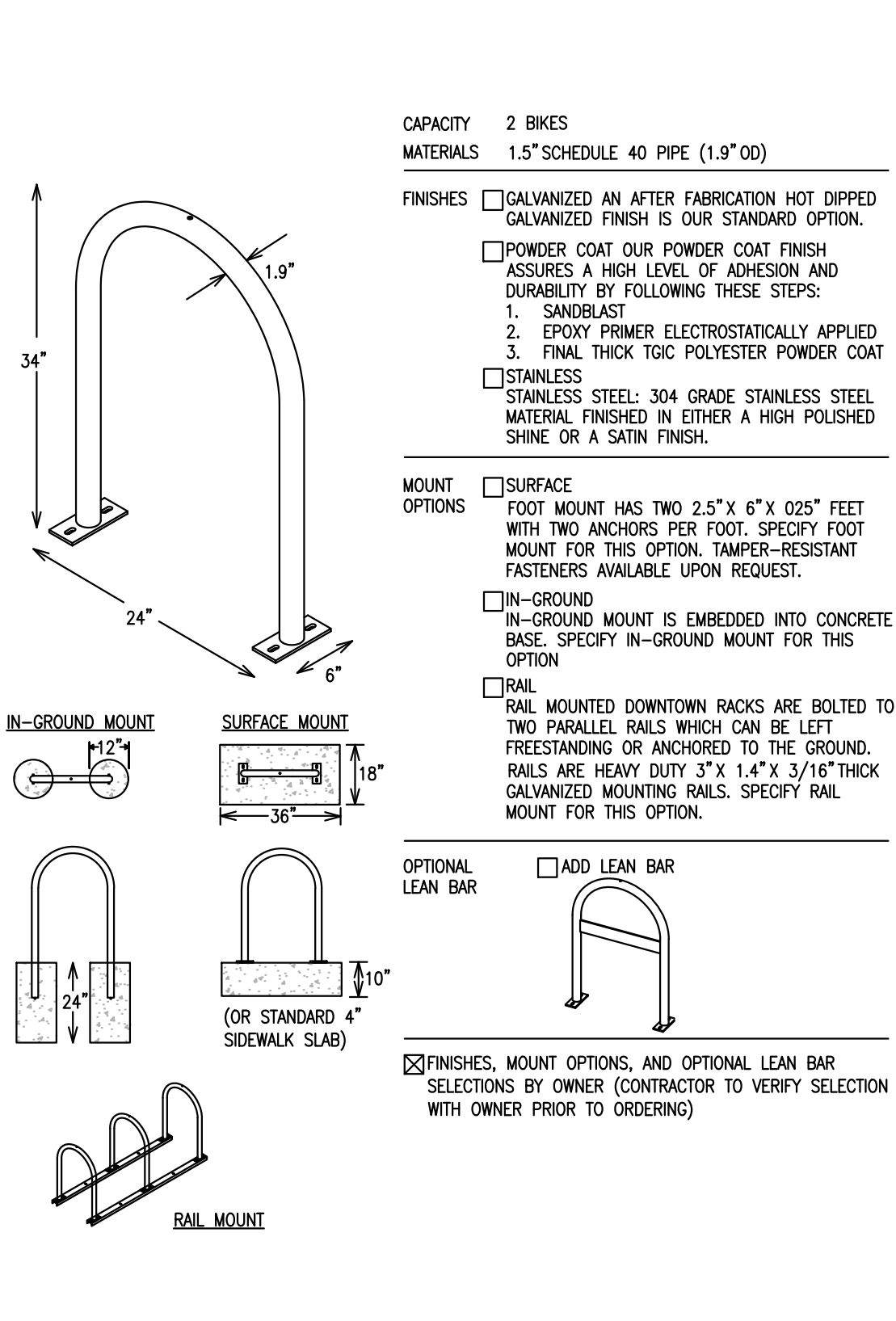
HANDICAP ACCESSIBLE PARKING SIGN DETAIL



TRAFFIC SIGN DETAIL - GRASS AREA



SEWER CLEAN OUT DETAIL



HOOP BIKE RACK

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

KEY PLAN

PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	DETAILS

DATE: 01/16/24 SHEET NO: C8.1

REV: 3

PROJECT SUMMARY

CONTRACT NO. 23-0508
 APPROX. LINEAR FOOTAGE = 150 LF
 STORAGE VOLUME = 0.54 AC-FT
 EXISTING VOLUME PROVIDED = 0.31 AC-FT
 PROPOSED VOLUME PROVIDED = 0.23 AC-FT
 TOTAL STORAGE VOLUME = 0.54 AC-FT
 TOTAL EXISTING VOLUME = 0.31 AC-FT
 TOTAL PROPOSED VOLUME = 0.23 AC-FT

STUB INFORMATION				RISER INFORMATION			
PIPE	SIZE	DEPTH	LENGTH	PIPE	DIAMETER	DEPTH	LENGTH
12" HDPE	12"	18"	150'	36"	36"	18"	150'
12" HDPE	12"	18"	150'	36"	36"	18"	150'
12" HDPE	12"	18"	150'	36"	36"	18"	150'
12" HDPE	12"	18"	150'	36"	36"	18"	150'
12" HDPE	12"	18"	150'	36"	36"	18"	150'

CONTECH ENGINEERED SOLUTIONS LLC
 800 Contech Blvd., Suite 200, Downers Grove, IL 60155
 PHONE: (630) 452-4000 FAX: (630) 452-4001
 www.contechllc.com

DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

TYPICAL SECTION VIEW
 NOT TO SCALE

TYPICAL BACKFILL DETAIL
 NOT TO SCALE

XFILTRATION BAND
 NOT TO SCALE

XFILTRATION JOINT DETAIL
 NOT TO SCALE

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DY042620 Police Department Firing Range and EOC Facility
 Orland Park, IL
 DETENTION SYSTEM

DETENTION AND VOLUME CONTROL SUMMARY

VOLUME TYPE	DEPTH	POROSITY	STORAGE VOLUME	DETENTION PROVIDED	VOLUME CONTROL PROVIDED
D ₁ VAULT DETENTION STORAGE (I=692.68')	5.92'	1.00	1.00 x D ₁	0.445 AC-FT	—
D ₂ COARSE AGGREGATE DETENTION STORAGE (I=692.68')	5.92'	0.36	0.36 x D ₂	0.074 AC-FT	—
V ₁ VAULT STORAGE (BELOW THE OUTLET)	0.58'	1.00	0.50 x 1.00 x V ₁	0.019 AC-FT	0.019 AC-FT
V ₂ COARSE AGGREGATE (ABOVE THE U.D. INVERT)	0.58'	0.36	0.50 x 0.36 x V ₂	0.004 AC-FT	0.004 AC-FT
V ₃ VAULT STORAGE (BELOW THE U.D. INVERT) (I=691.10')	1.00'	1.00	1.00 x V ₃	—	0.042 AC-FT
V ₄ COARSE AGGREGATE (BELOW THE U.D. INVERT) (I=691.10')	1.00'	0.36	0.36 x V ₄	—	0.025 AC-FT
TOTAL				0.542 AC-FT	0.090 AC-FT

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DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

CONNECTION DETAIL
 NOT TO SCALE

18-C BAND DETAIL
 NOT TO SCALE

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DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

CONSTRUCTION LOADING DIAGRAM
 NOT TO SCALE

MATERIAL SPECIFICATION
 NOT TO SCALE

MANHOLE CAP DETAIL
 NOT TO SCALE

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DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

RESTRICTOR CATCH BASIN #1 DETAIL

CONTECH ENGINEERED SOLUTIONS LLC
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DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

MWRD VOLUME CALCULATIONS
 N.T.S.

VOLUME TYPE	DEPTH	STORAGE VOLUME	VOLUME PROVIDED
D ₁ VAULT DETENTION STORAGE	5.92'	1.00 x D ₁	0.445 AC-FT
D ₂ COARSE AGGREGATE DETENTION STORAGE	5.92'	0.36 x D ₂	0.074 AC-FT
V ₁ VAULT STORAGE (BELOW THE OUTLET)	0.58'	0.50 x 1.00 x V ₁	0.019 AC-FT
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V ₄ COARSE AGGREGATE (BELOW THE U.D. INVERT)	1.00'	0.36 x V ₄	0.025 AC-FT
TOTAL STORAGE VOLUME			0.542 AC-FT
TOTAL VOLUME CONTROL PROVIDED			0.090 AC-FT

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DY042620 Police Department Firing Range and EOC Facility
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 DETENTION SYSTEM

ELEVATION A-A VIEW

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DY042620 Police Department Firing Range and EOC Facility
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 DETENTION SYSTEM

RESTRICTOR CATCH BASIN #1 DETAIL

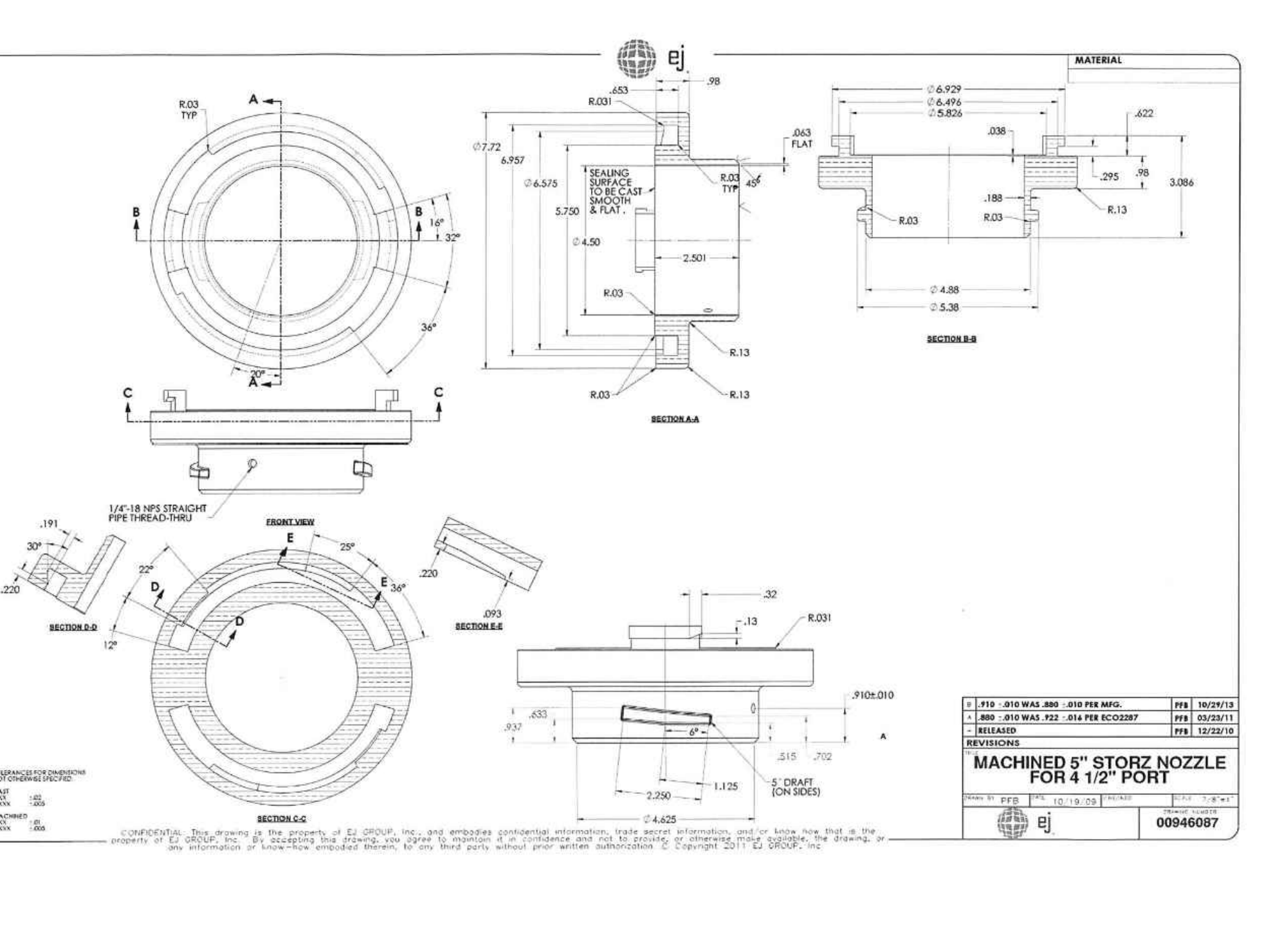
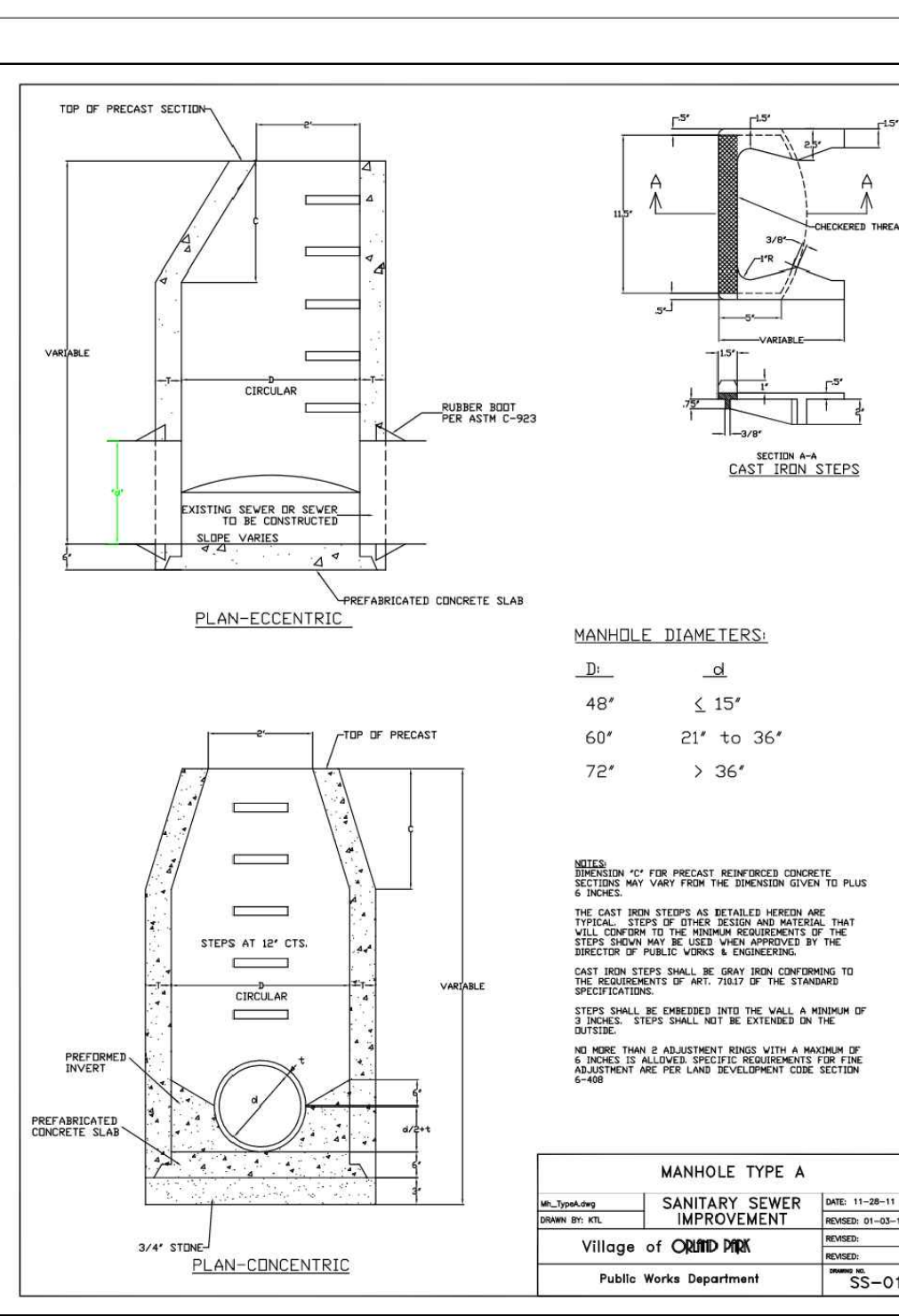
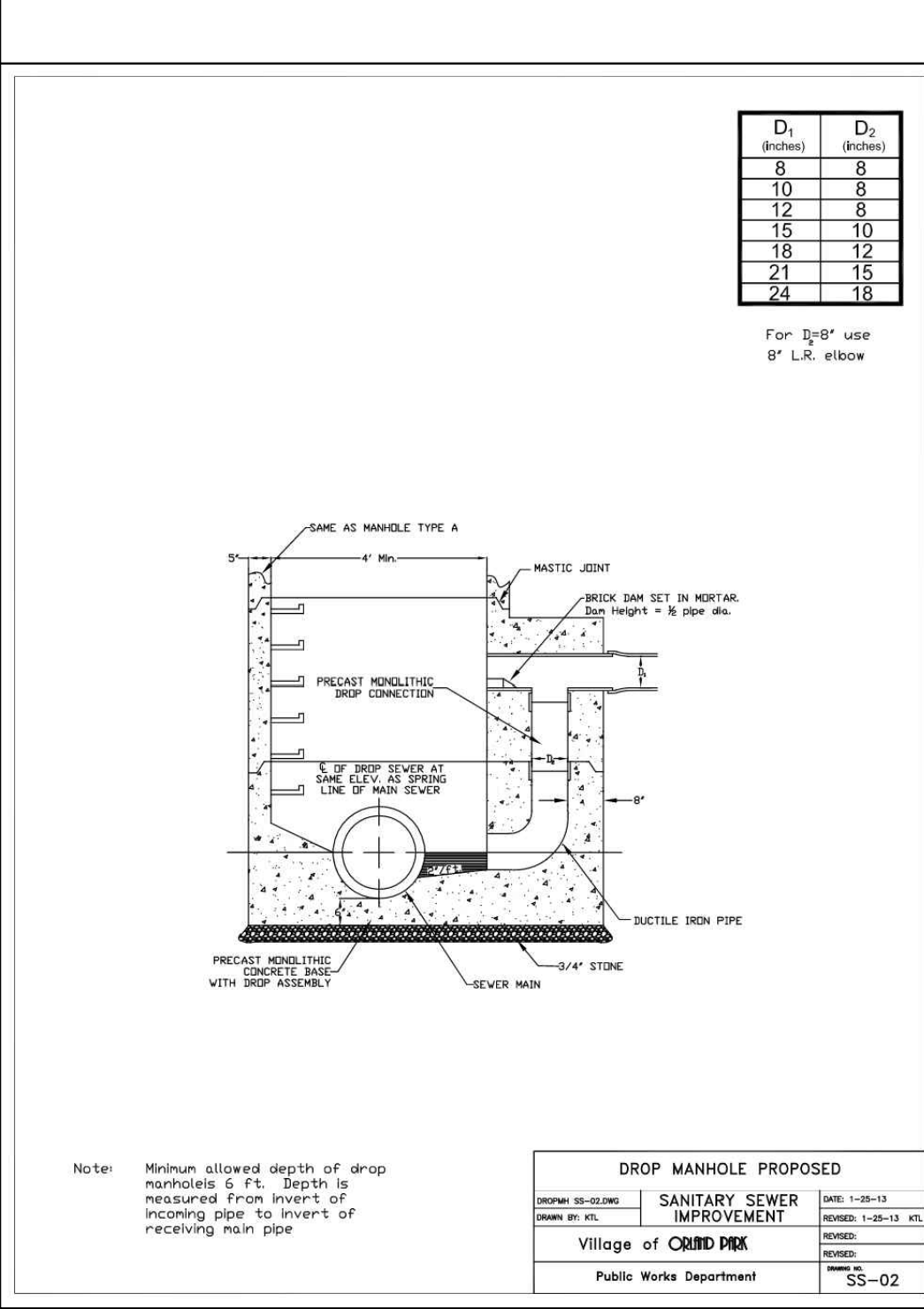
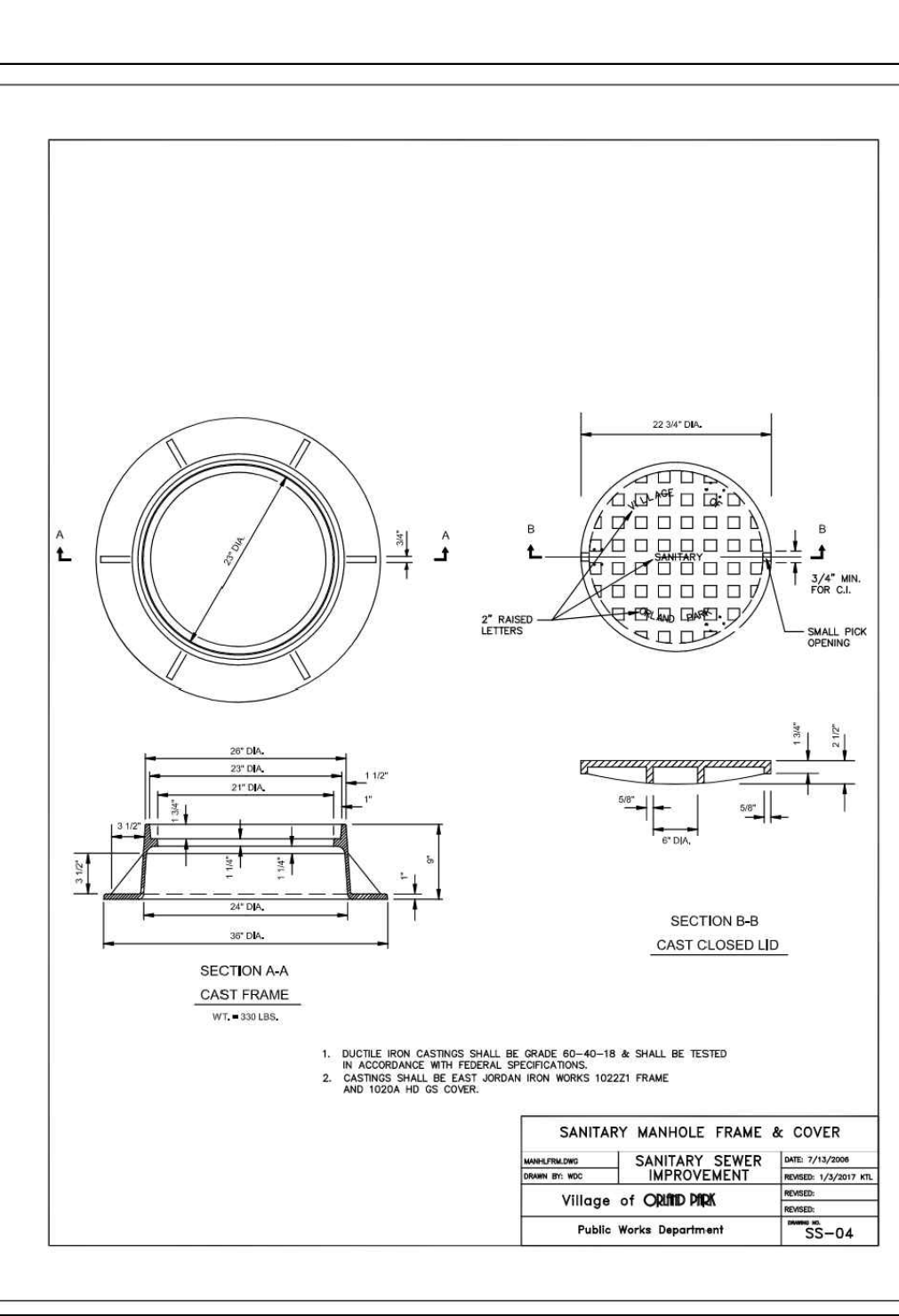
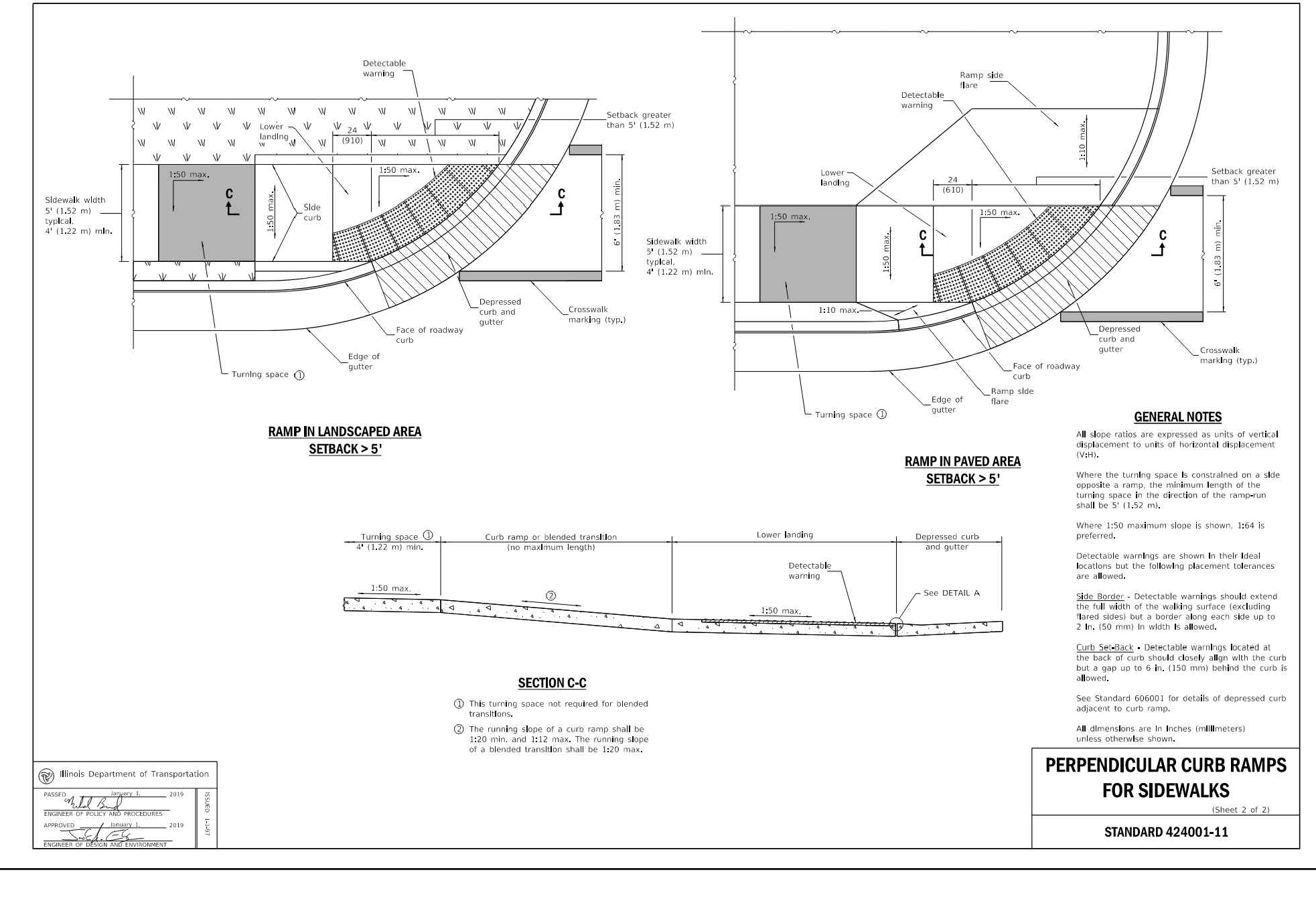
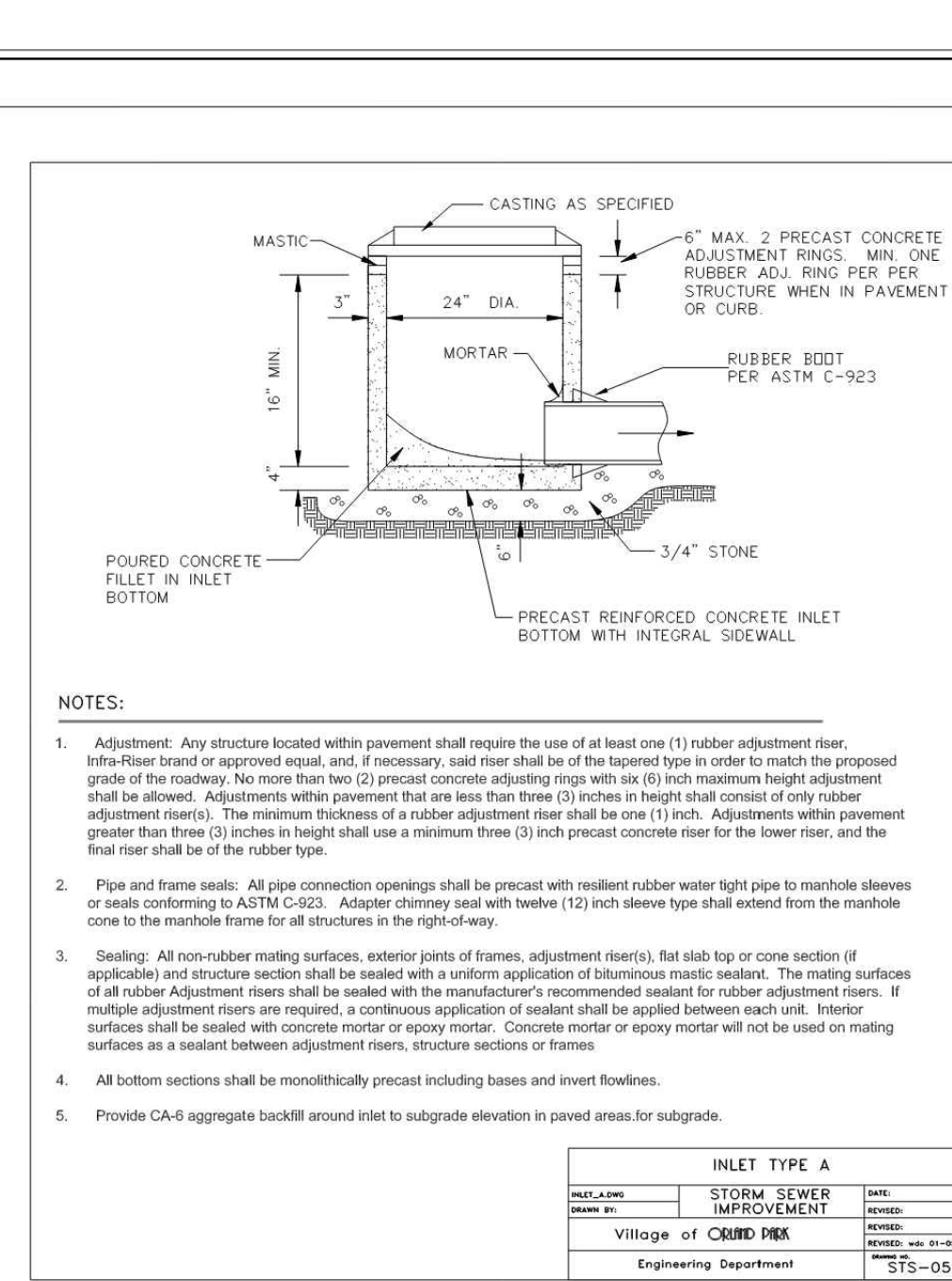
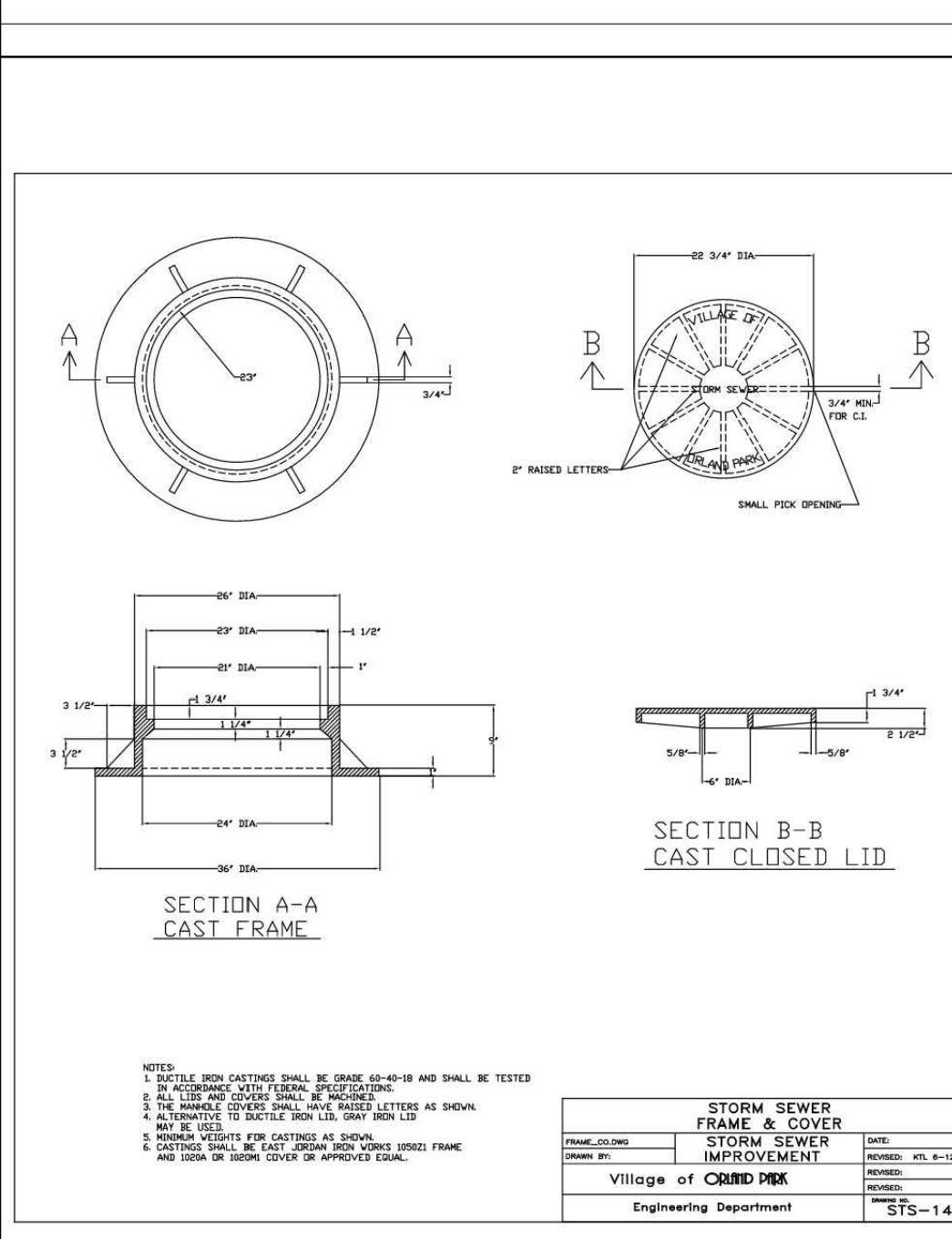
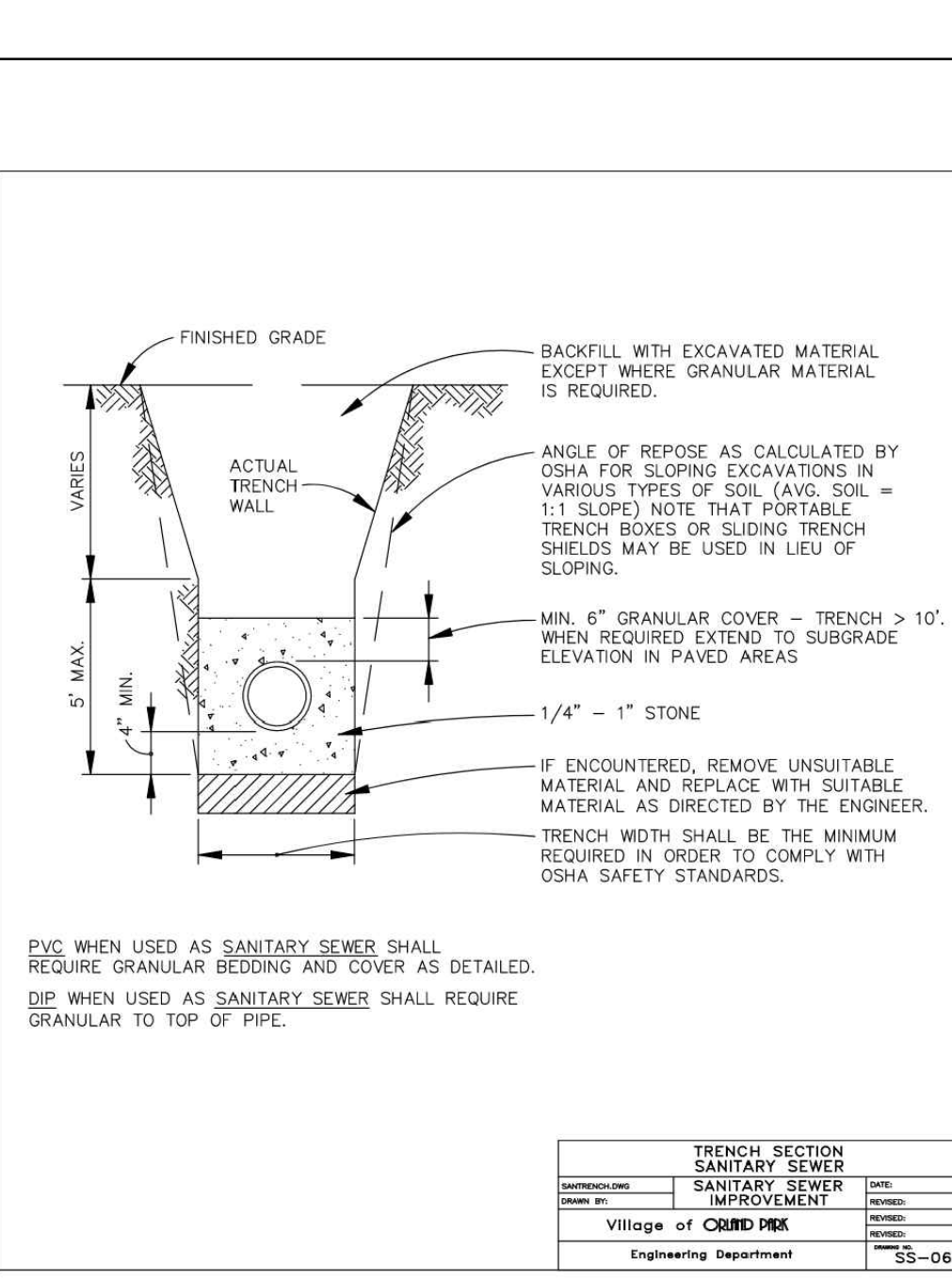
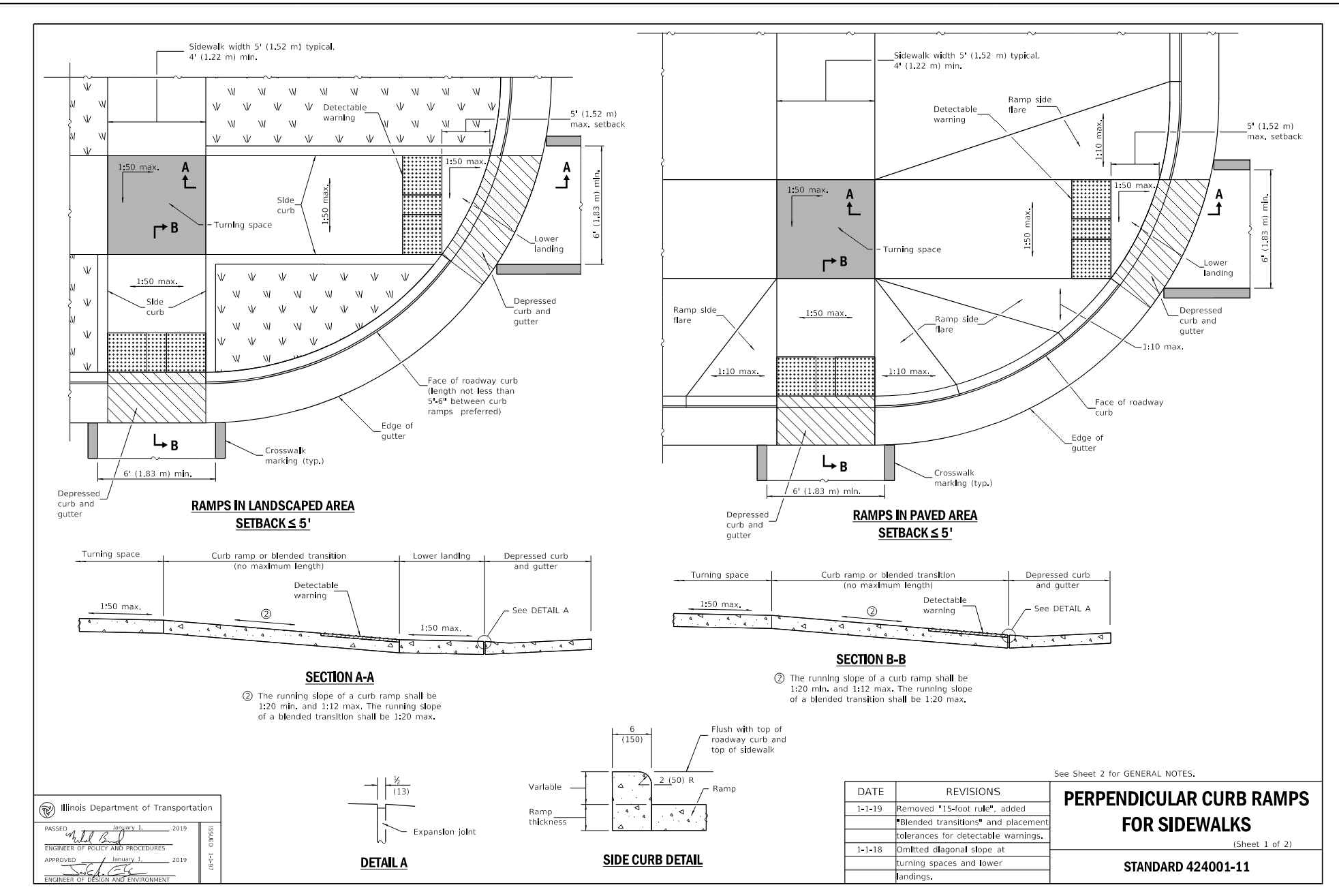
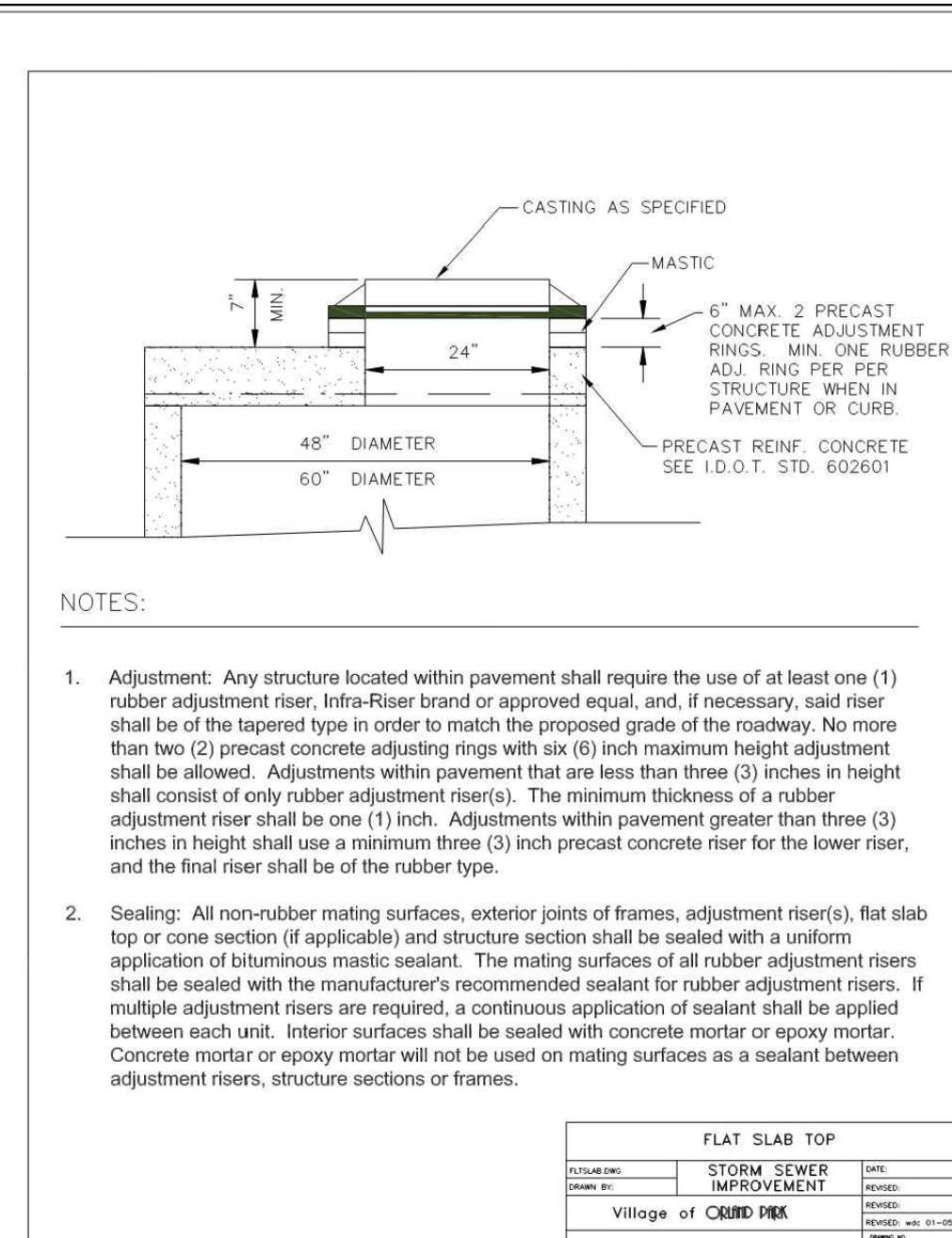
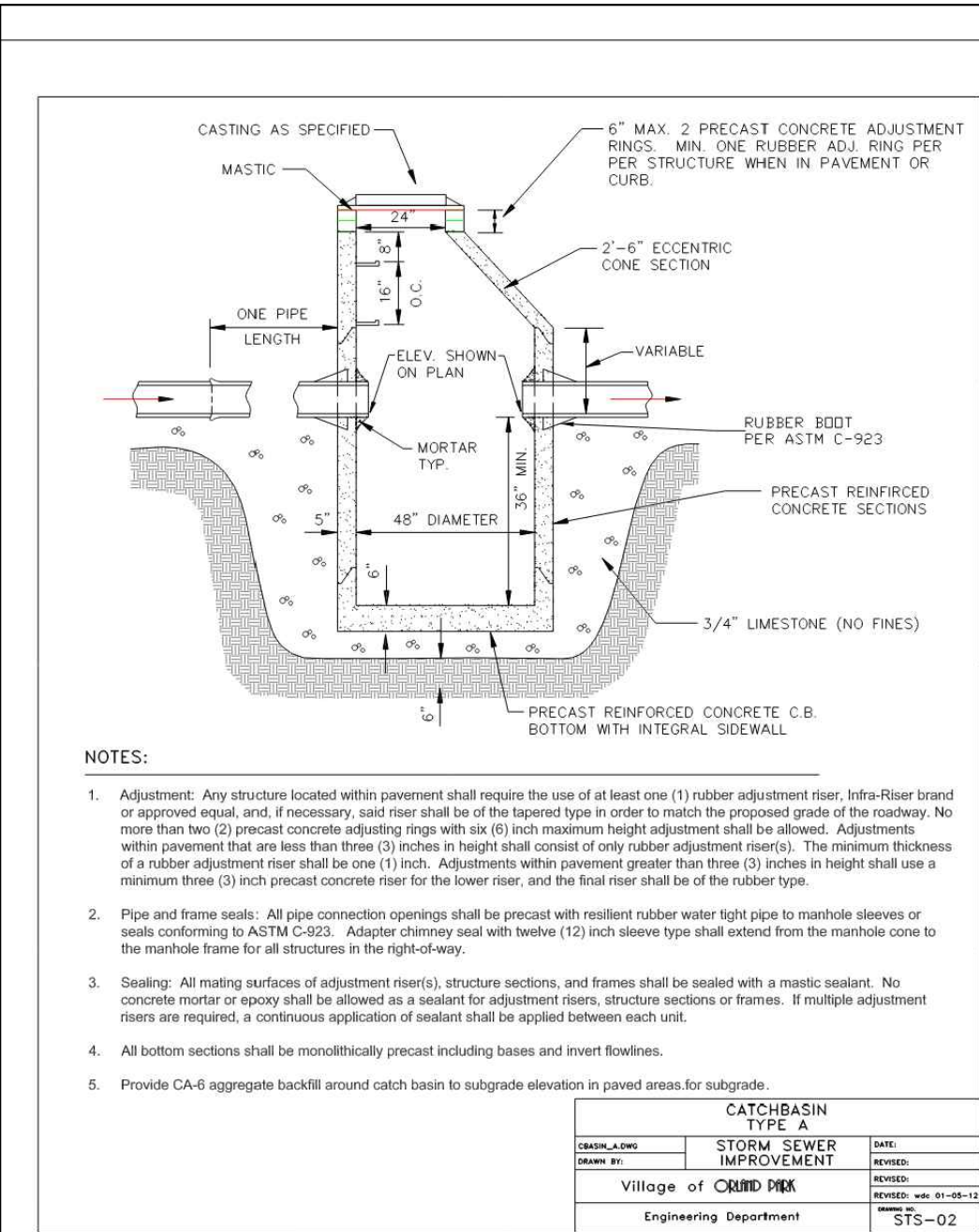
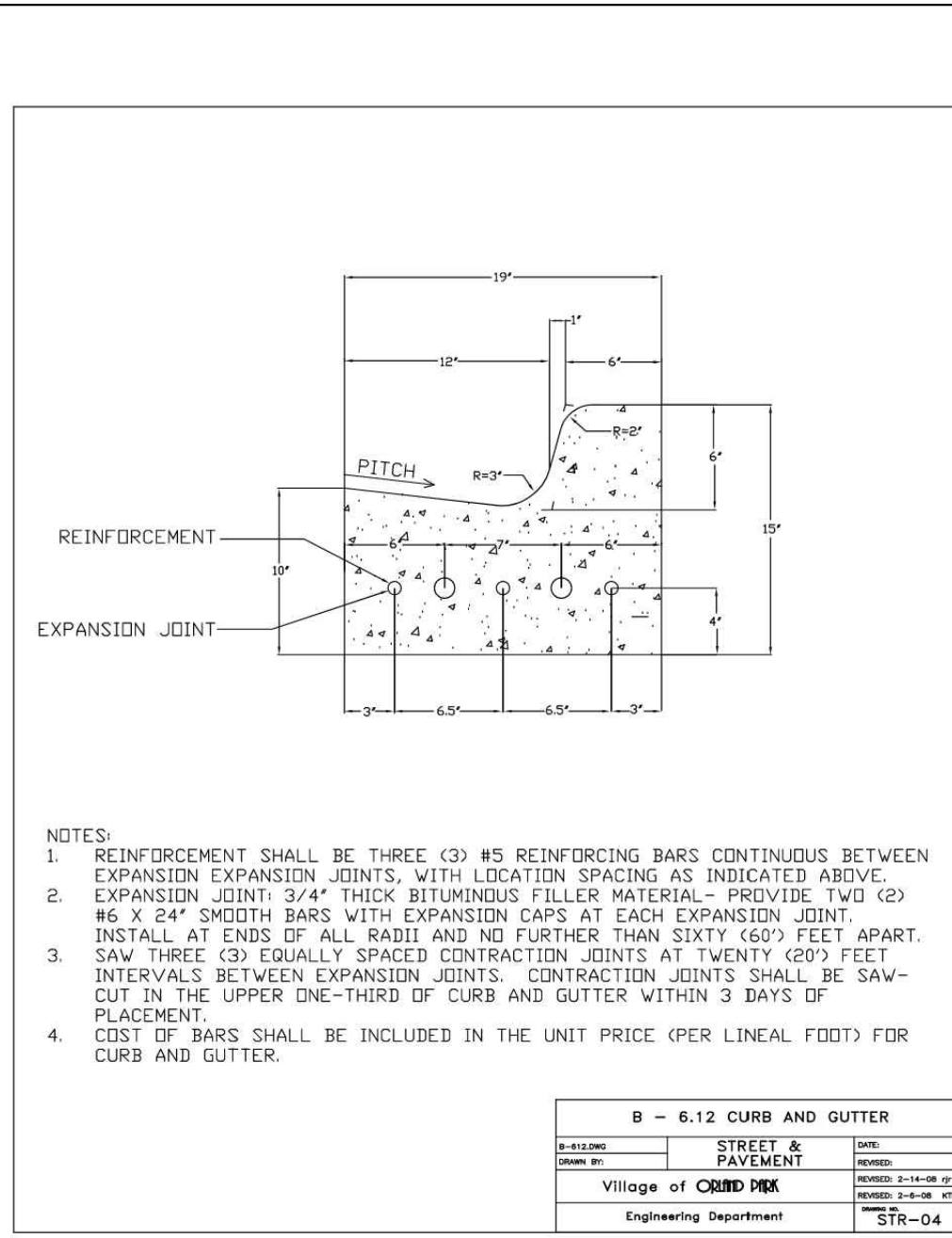
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DY042620 Police Department Firing Range and EOC Facility
 90" CMP Detention System
 Orland Park, IL
 DETENTION SYSTEM

N.T.S.

DATE: 01/16/24 SHEET NO: C8.1

REV: 3



PLANNING DIVISION APPROVED

Case No: 2023-0508

Date: 12/19/2023

W/Conditions: Yes

W/Out Conditions:

VILLAGE OF ORLAND PARK

ISSUE ISSUED FOR REVIEW - 90%

3 01/16/24 ISSUED FOR REVIEW - 90%

2 12/01/23 ISSUED FOR REVIEW - 60%

1 10/18/23 ISSUED FOR REVIEW - 30%

REV DATE DESCRIPTION

KEY PLAN

N.T.S.

PROJECT NO: H064

DESIGNED BY: --

DRAWN BY: --

CHECKED BY: --

APPROVED BY: --

SHEET TITLE

DETAILS

DATE: 01/16/24

REV: 3

SHEET NO: C8.2



Village of Orland Park Illinois

POLICE DEPARTMENT FIRING RANGE AND EOC FACILITY

16069 163rd St. Orland Park, IL 60467



PLANNING DIVISION APPROVED

Case No: 2023-0508

Date: 12/19/2023

W/Conditions: Yes

W/Out Conditions:

VILLAGE OF ORLAND PARK

ISSUED FOR REVIEW - 90%

Table with 3 columns: Issue No, Date, and Description. Shows review status for various items.

REV DATE DESCRIPTION

KEY PLAN

Table with 2 columns: Project No. (H064) and Design/Drawn/Checked/Approved/Sheet Title.

N.T.S.

Table with 2 columns: Project No. (H064) and Design/Drawn/Checked/Approved/Sheet Title.

GENERAL NOTES AND SPECIFICATIONS

DATE: 01/16/24 SHEET NO. 3

REV. 3

C9

WATER MAIN AND WATER SERVICES

- 1. WATER MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), CLASS 52, CONFORMING TO AWWA C-151 (ANSI A-21.5) WITH CEMENT PORTLAND LINING AND BITUMINOUS SEAL COATING... 2. THE JOINTS SHALL BE PUSH-ON JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111) AND ALL RETAINING GLANDS SHALL BE SET SCREW OR MEGA-LUG TYPE...

SOIL EROSION AND SEDIMENT CONTROL

- 1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY, AND THE ILLINOIS URBAN MANUAL. 2. BEFORE STARTING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS.

SANITARY SEWER

- 1. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SANITARY SEWER SHALL BE RING-TITE PVC (POLYVINYL CHLORIDE) PLASTIC PIPE. ALL JOINTS SHALL CONFORM TO ASTM D-3034 WITH ELASTOMER RUBBER RING GASKET JOINTS... 2. WHERE SANITARY SEWER PIPE IS NOTED AS PVC 9300, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) C900 WITH WATERHOOT, PRESSURE RATED JOINTS CONFORMING TO ASTM D3139.

STORM SEWER

- 1. ALL STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, IN ADDITION TO THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY. 2. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE (RCP), ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C-443.

PAVEMENT

- 1. FINE GRADING
A. PRIOR TO THE CONSTRUCTION OF CURB AND GUTTER AND PLACEMENT OF THE BASE MATERIAL, THE STREETS SHALL BE FINE GRADED TO WITHIN 0.05 FEET OF FINAL SUBGRADE ELEVATION, TO A POINT TWO FEET BEYOND THE BRACK OF CURB.
2. CURB AND GUTTER
A. THE TYPE OF THE CURB AND GUTTER SHALL BE AS DETAILED ON THE ENGINEERING PLANS.
3. PAVEMENT
A. THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. DEPTHS SPECIFIED SHALL BE CONSIDERED THE MINIMUM COMPACTED THICKNESS.

DENSITY CONTROL LIMITS TABLE. Table with 4 columns: Mixture Composition, Parameter, Individual Test (Includes Confined Edges), and Unconfined Edge Joint Density Minimum.

GENERAL NOTES (CONT.)

- 34. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES, WHEREVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO STORM SEWERS, DRAINAGE OR LOT AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM... 35. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER.

EARTHWORK

- 1. TOPSOIL EXCAVATION
A. TOPSOIL, ORGANIC MATERIAL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM AREAS REQUIRING STRUCTURAL FILL.
B. PLACEMENT OF EXCAVATED MATERIAL SHALL BE DESIGNATED BY THE OWNER FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED OR AS FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.
2. EARTH EXCAVATION
A. EXCAVATION OF EARTH AND OTHER MATERIALS, WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE WITHIN A TOLERANCE OF 0.05 FEET FOR PADS AND PAVEMENT, AT 0.1 FEET +/- OF THE PLAN SUBGRADE ELEVATIONS.

GENERAL NOTES

- 1. ALL PAVING AND RELATED CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS SET FORTH BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THEREIN AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SUBDIVISION REGULATIONS OF THE MUNICIPALITY. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND IN ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED ON THE PLANS.

**PLANNING DIVISION
APPROVED**

Case No: **2023-0508**

Date: **12/19/2023**

W/Conditions: **Yes**

W/Out Conditions:

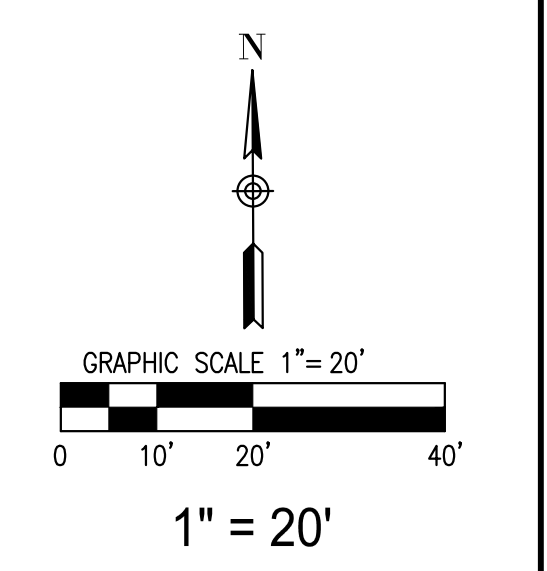
VILLAGE OF ORLAND PARK

ISSUE
ISSUED FOR REVIEW - 90%

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

REV	DATE	DESCRIPTION
3	01/16/24	ISSUED FOR REVIEW - 90%
2	12/01/23	ISSUED FOR REVIEW - 60%
1	10/18/23	ISSUED FOR REVIEW - 30%

KEY PLAN



PROJECT NO.	H064
DESIGNED BY	--
DRAWN BY	--
CHECKED BY	--
APPROVED BY	--
SHEET TITLE	

MWRD DRAINAGE PLAN

DATE:	01/16/24	SHEET NO.	C11
REV:	3		

PROPOSED DRAINAGE EXHIBIT LEGEND:

- PROPERTY AREA
- DEVELOPMENT AREA
- OFF-SITE TRIBUTARY DRAINAGE AREA
- IMPERVIOUS AREA (CN=98)
- PERVIOUS AREA (CN=80)
- UNRESTRICTED AREA
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED DRAINAGE DIVIDE
- DRAINAGE DIRECTION
- OVERFLOW ROUTE
- OFF-SITE OVERFLOW ROUTE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER

STORMWATER MANAGEMENT SUMMARY TABLE:

PROJECT AREA	2.03 ACRES
DEVELOPMENT AREA	1.80 ACRES
PROPOSED IMPERVIOUS AREA (CN=98)	1.05 ACRES
PROPOSED PERVIOUS AREA (CN=80)	0.75 ACRES
UNRESTRICTED AREA (4.8%)	0.087 ACRES
COMPOSITE RUNOFF CURVE NUMBER	90.5
ADJUSTED RUNOFF CURVE NUMBER	85.5
2-YEAR VILLAGE ALLOWABLE RELEASE RATE (1.80 AC X 0.04 CFS/AC)	0.07 CFS
2-YEAR DESIGN RELEASE RATE	0.07 CFS
100-YEAR MWRD ALLOWABLE RELEASE RATE (1.80 AC X 0.30 CFS/AC)	0.54 CFS
100-YEAR VILLAGE ALLOWABLE RELEASE RATE (1.80 AC X 0.15 CFS/AC)	0.27 CFS
100-YEAR DESIGN RELEASE RATE	0.26 CFS
DETENTION VOLUME REQUIRED	0.81 ACRE-FEET
TOTAL DETENTION VOLUME PROVIDED	0.85 ACRE-FEET
EXISTING OFF-SITE DETENTION PROVIDED	0.31 ACRE-FEET
ADDITIONAL DETENTION PROVIDED (CONTECH CMP DETENTION SYSTEM)	0.54 ACRE-FEET
VOLUME CONTROL REQUIRED	0.09 ACRE-FEET
VOLUME CONTROL PROVIDED	0.09 ACRE-FEET
2-YEAR DESIGN RELEASE RATE (3.375" VORTEX RESTRICTOR AT 692.10')	0.07 CFS
(ADJUSTED TO ACCOUNT FOR EXISTING OFF-SITE DETENTION)	1.06 CFS
100-YEAR DESIGN RELEASE RATE (8" RESTRICTOR AT 694.00')	1.56 CFS
(ADJUSTED TO ACCOUNT FOR EXISTING OFF-SITE DETENTION)	
2-YEAR DESIGN RELEASE RATE (3.375" VORTEX RESTRICTOR AT 692.10')	0.21 CFS
(ADJUSTED TO ACCOUNT FOR OFF-SITE TRIBUTARY DRAINAGE AREA)	
100-YEAR DESIGN RELEASE RATE (8" RESTRICTOR AT 694.00')	1.56 CFS
(ADJUSTED TO ACCOUNT FOR OFF-SITE TRIBUTARY DRAINAGE AREA)	

