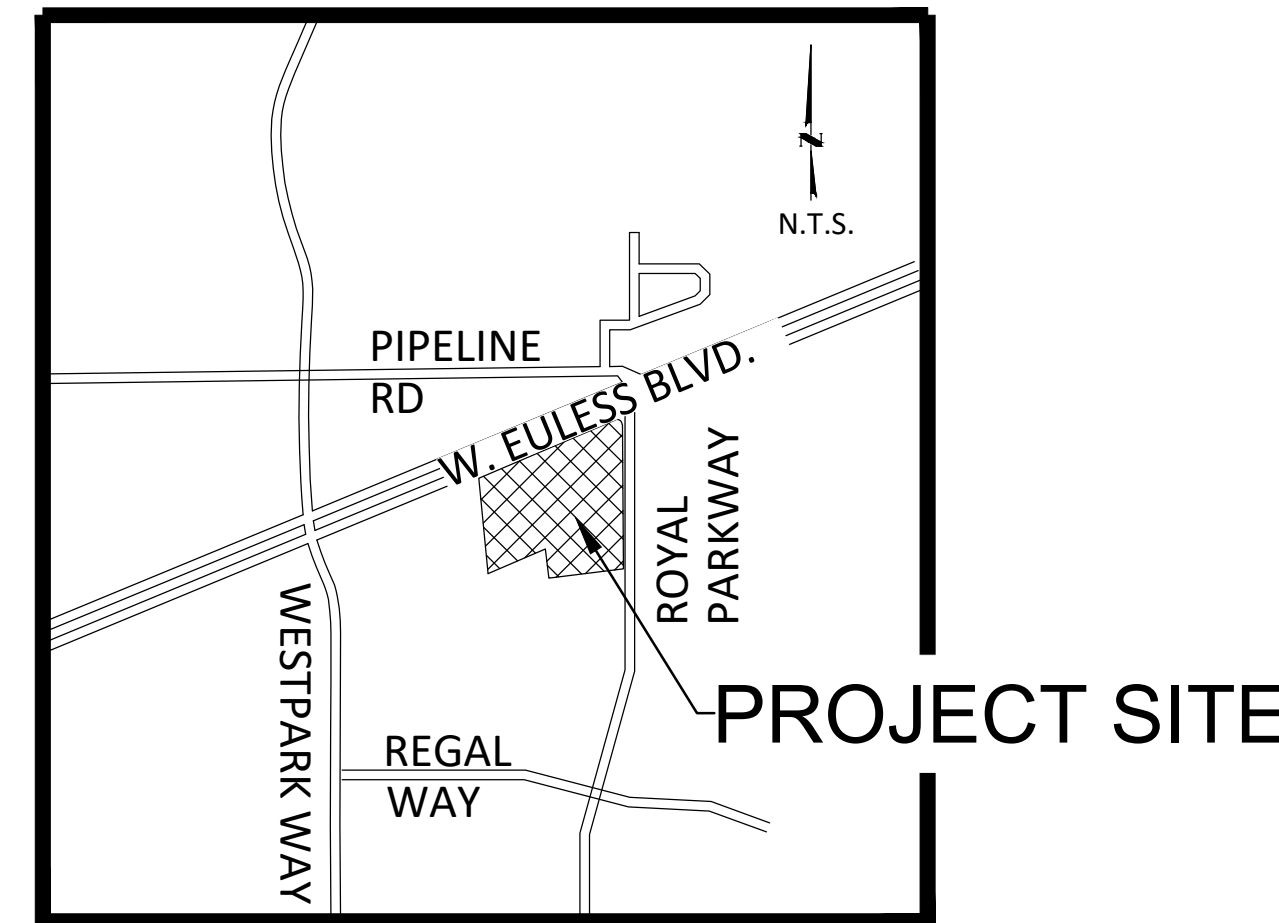


CITY OF EULESS, TEXAS FINAL CONSTRUCTION PLANS TO SERVE NEPALI CULTURE AND SPIRITUAL CENTER

TXDOT NOTES

- ALL CONSTRUCTION WITHIN THE STATE RIGHT OF WAY WILL REQUIRE COMPLIANCE TO TXDOT STANDARD SPECIFICATIONS, STANDARD PLANS, AND TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AS FOLLOWS SHALL GOVERN ON THIS PROJECT FOR ALL WORK WITHIN THE STATE RIGHT OF WAY.
- THE STANDARD SHEETS, SPECIFICALLY IDENTIFIED IN THIS INDEX OF SHEETS, HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.(STANDARD PLAN SHEETS ARE IDENTIFIED WITH AN * IN THE INDEX SHEETS.)
- BY SEALING AND SIGNING THESE PERMIT PLANS AS A PROFESSIONAL CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, I CERTIFY THAT THE PROPOSED DRIVEWAY OR PUBLIC STREET CONNECTION(S) TO THE STATE ROADWAY MEETS OR EXCEEDS THE MINIMUM STOPPING DISTANCE REQUIRED FOR A POSTED SPEED OF 50 MPH, BASED ON THE MOST RECENT TXDOT DESIGN MANUAL REQUIREMENTS."
- FULL-DEPTH SAW CUT ALL JOINTS MADE FOR REMOVAL OF EXISTING STATE FACILITIES.



VICINITY MAP
NOT TO SCALE

SHEET INDEX

SHEET NO	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING SURVEY
4	SITE PLAN
5	DEMOLITION PLAN
6	HORIZONTAL CONTROL
7-8	GRADING PLAN
9	EXISTING DRAINAGE AREA MAP
10	PROPOSED DRAINAGE AREA MAP
11	STORM DRAIN PLAN
12	STORM DRAIN PROFILES
13	STORM DRAIN CALCULATIONS
14	POND CALCULATIONS
15	PAVING PLAN
16	WATER AND SEWER PLAN
17	EROSION CONTROL PLAN
18	TRAFFIC CONTROL PLAN
19	SITE DETAILS & SECTIONS
20-22	LANDSCAPE AND IRRIGATION PLANS
23	LIGHTING PLAN
*	STANDARD DETAILS
*	PEDESTRIAN HANDRAIL DETAILS
*	CONCRETE HEADWALL
*	PEDESTRIAN FACILITIES CURB RAMPS
*	TCP(1-4) - 18
*	TCP(2-1) - 18
*	CP-TEP(FTW)
*	EDGE CONDITION TREATMENT TYPES

LEGEND

- ■ ■ ■ ■ RETAINING WALL
- — ● HANDRAIL
- [10] — EXIST. CONTOUR
- 10 — PROPOSED CONTOUR
- X-X- EXISTING FENCE
- W — EXIST. WATER MAIN
- S — EXIST. SEWER MAIN
- STM — EXIST. STORM MAIN
- ▶ FLOW DIRECTION
- /// SAWCUT, REMOVE AND REPLACE
- ▒ PROP. 4" CONCRETE
- PROP 5" PAVEMENT
- ▒ PROP 6" PAVEMENT

ABBREVIATION

- TC TOP OF CURB
- TP TOP OF PAVEMENT
- FS FINISH SURFACE
- FG FINISH GRADE
- CF CURB FACE
- FL FLOWLINE
- HP HIGH POINT
- LP LOW POINT
- TG TOP OF GRATE
- GB GRADE BREAK
- PL PROPERTY LINE
- R/W RIGHT OF WAY
- (495.2) EXISTING ELEVATIONS
- TRW TOP OF RETAINING WALL
- TF TOP OF FOOTING
- RH RETAINED HEIGHT

FEMA FLOOD ZONE:

FLOOD ZONE: "X" PER
MAP NO 48439C0230L,
EFFECTIVE ON 03/21/2019

Owned By:

NEPALI CULTURAL AND SPIRITUAL CENTER
1212 ROYAL PARKWAY
EULESS, TEXAS 76040

BENCHMARK

(EULESS CONTROL MONUMENT E04)

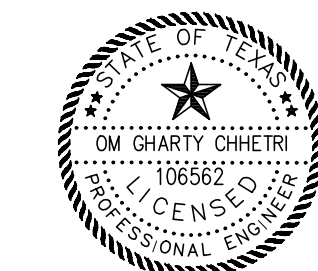
ELEVATION: 562.857' NGVD1929
NAD 1983 DATUM
NORTHING: 6986180.789
EASTING: 2395878.716
DESCRIPTION: 3-1/4" DOMED BRASS DISK SET IN TOP OF A CONCRETE INLET AND WITNESS BY AN ORANGE FIBERGLASS STAKE.

BENCHMARK

(EULESS CONTROL MONUMENT E03)

ELEVATION: 535.794' NGVD1929
NAD 1983 DATUM
NORTHING: 6985189.443
EASTING: 2398570.777
DESCRIPTION: 3-1/4" DOMED BRASS DISK SET IN TOP OF AN INLET NEAR THE SOUTHWEST CORNER OF THE INLET.

PRELIMINARY PLAN
For Review Only
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F-19293

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GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CITY STANDARDS AND SPECIFICATIONS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" ALONG WITH ALL OF THE LATEST AMENDMENTS. COPIES MAY BE OBTAINED FROM THE "NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS", PO DRAWER 5888, ARLINGTON, TEXAS, 76005- 5888, PHONE (817) 640-3300; ALSO AVAILABLE AT [HTTPS://WWW.NCTCOG.ORG/ENVIR/PUBLIC-WORKS/CONSTRUCTION- STANDARDS](https://www.nctcog.org/envir/public-works/construction-standards). A COPY OF THE CONTRACT DOCUMENTS, PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON-SITE AT ALL TIMES BY THE CONTRACTOR.
- ALL COMMUNICATION BETWEEN THE CITY AND THE CONTRACTOR SHALL BE THROUGH THE ENGINEERING CONSTRUCTION INSPECTOR AND ENGINEER OF RECORD ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE APPROPRIATE DEPARTMENT FOR INSPECTIONS OF WORK NOT FALLING UNDER THE PUBLIC WORKS CONSTRUCTION PERMIT.
- THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THERE MAY BE OTHER UNKNOWN EXISTING UTILITIES NOT SHOWN ON THE PLANS. ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED AND PROTECTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. (ALSO SEE GENERAL NOTE NO. 4(D)). THE CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITY COMPANIES 72 HOURS PRIOR TO DOING ANY WORK IN THE AREA:
 - ATMOS GAS LINE LOCATION PH (817) 303-2914
 - ONCOR ELECTRIC DELIVERY PH (972) 923-4245
 - AT&T TELEPHONE CO. LINE LOCATION PH (972) 660-0422
 - TIME WARNER CABLE COMPANY LINE LOCATION PH (214) 320-7396
 - VERIZON PH (800) 624-9675
 - U.S. SPRINT PH (800) 521-0579
 - AT&T PH (800) 252-1133
 - TEXAS DEPARTMENT OF TRANSPORTATION (TARRANT AREA) PH (817) 370-6500
 - DIG TESS PH (800) 344-8377
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE FOLLOWING:
 - PREVENT ANY PROPERTY DAMAGE TO PROPERTY OWNER'S POLES, FENCES, SHRUBS, MAILBOXES, ETC
 - LOCATE, VERIFY WORKING CONDITION AND PROTECT ALL EXISTING SPRINKLER SYSTEMS LINES AND HEADS (IF ANY) WITHIN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. REMOVE, ADJUST AND REINSTALL IN GOOD CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION; REPLACE, IF IN DIRECT CONFLICT, WITH THE SAME OR BETTER QUALITY MATERIAL AND APPURTENANCES, ALL AT THE CONTRACTOR'S OWN EXPENSE.
 - PROVIDE ACCESS TO ALL DRIVES DURING CONSTRUCTION.
 - PROTECT ALL UNDERGROUND AND OVERHEAD UTILITIES AND REPAIR ANY DAMAGES. (ALSO SEE GENERAL NOTE NO. 3.)
 - NOTIFY ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
 - PROVIDE CONSTRUCTION STAKING OF PUBLIC IMPROVEMENTS CONSTRUCTED WITHIN ANY CITY EASEMENT OR RIGHT-OF-WAY. STAKING SHALL BE PERFORMED BY A SURVEYOR LICENSED IN THE STATE OF TEXAS.
 - COOPERATE WITH THE UTILITY COMPANIES WHERE UTILITIES ARE REQUIRED OR SPECIFIED TO BE RELOCATED.
 - WORK IN CLOSE PROXIMITY TO AND PROTECT EXISTING UTILITY MAINS, TRAFFIC LIGHTS AND POLES.
 - ANY ITEM NOT SPECIFICALLY CALLED OUT TO BE REMOVED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO REMOVING THAT ITEM OR IT SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
 - ANY TREE, SHRUB, OR GRASSED AREAS DAMAGED BY THE CONTRACTOR'S WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE TO EXISTING OR BETTER CONDITION.
 - IN THE PREPARATION OF THE PLANS AND SPECIFICATIONS, THE ENGINEER OF RECORD HAS ENDEAVORED TO INDICATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES. IT IS NOT GUARANTEED THAT ALL LINES OR STRUCTURES HAVE BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL REQUEST FOR LINE LOCATES AS DIRECTED IN ITEM #3. THE ENGINEER OF RECORD SHALL BE NOTIFIED ABOUT ANY CONFLICTS TO PROVIDE WRITTEN DIRECTION AND REVISED PLANS AS REQUIRED.
 - VERIFICATION OF THE CONDITION OF EXISTING CITY UTILITIES PRIOR TO CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL REQUEST FOR LINE LOCATES AS DIRECTED IN ITEM #3.
 - THE LOCATION FOR THE DISPOSAL OF CONSTRUCTION MATERIAL AND SPOILS SHALL BE ACCEPTED BY THE CITY OF ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION AS REFLECTED WITHIN THE STORMWATER POLLUTION PREVENTION PLAN.
 - ALL PHASES OF CONSTRUCTION MUST BE COORDINATED WITH THE ENGINEER OF RECORD. ALSO, THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE ADJACENT PROPERTY OWNERS AND THE CITY IN ORDER TO MINIMIZE CONFLICTS IN TRAFFIC FLOW OR OTHER OPERATIONS.
 - IT SHALL BE UNLAWFUL FOR ANY PERSON TO LAY, CONSTRUCT, BUILD, GRADE, GRAVEL, PAVE, SURFACE, EXCAVATE, RESURFACE, OR DO ANY WORK IN OR UPON ANY PUBLIC STREET, ALLEY, EASEMENT, THOROUGHFARE, PUBLIC PLACE, OR CONNECT TO PUBLIC WATER AND WASTEWATER MAINS WITHIN THE CITY, WITHOUT FIRST HAVING OBTAINED A PERMIT TO DO SUCH WORK FROM THE DIRECTOR OF PUBLIC WORKS, AND WITHOUT HAVING PAID A PERMIT FEE TO THE CITY. THE PERMITTEE SHALL NOTIFY THE ENGINEERING DEPARTMENT OF THE CONSTRUCTION STARTUP DATE AND AN EXPECTED COMPLETION DATE.
 - FIELD ADJUSTMENTS MAY BE NECESSARY AND SHALL BE CARRIED OUT AS DIRECTED IN WRITTEN FORM, AND REVISED PLANS AS NEEDED, BY THE ENGINEER OF RECORD. THE ADJUSTMENTS SHALL BE COORDINATED WITH THE CONTRACTOR AND THE ENGINEERING CONSTRUCTION INSPECTOR.
 - THE CONTRACTOR SHALL VERIFY, LOCATE, AND PROTECT EXISTING WATER, WASTEWATER, FIBER OPTIC CABLE/PATHWAYS (CITY AND FRANCHISE UTILITY), TRAFFIC SIGNALS AND APPURTENANCES, STORM DRAINAGE, NATURAL GAS, PETROLEUM PIPELINES, ELECTRIC AND TELEPHONE MAINS AND SERVICES AND RESTORE SERVICE IN CASE OF ANY DAMAGE.
 - ALL FENCES, SIGNS, SURVEY MONUMENTS, AND PROPERTY CORNER MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW MATERIAL IN CONFORMANCE WITH THE CITY ENGINEER'S SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL PRECAUTIONS TO PROTECT EXISTING TREES OUTSIDE THE SCOPE OF THIS PROJECT OR THOSE TREES NOT DESIGNATED IN THE PLANS TO BE REMOVED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONTRACTOR OUTSIDE OF THE DESIGNATED WORK AREA WITH NEW QUALITY MATERIAL AT THE CONTRACTOR'S EXPENSE.
 - THE PERMITTED CONTRACTOR MAKING CONNECTIONS/EXTENSIONS TO EXISTING PUBLIC UTILITIES SHALL BE SOLELY RESPONSIBLE FOR BACKFILL OF THE UTILITY TRENCH, AND ANY PAVING REPAIRS REQUIRED FOR COMPLETION OF THE CONNECTION/EXTENSION. ALL PAVING REPAIRS SHALL COMPLY WITH THE CURRENT CITY STANDARD DETAILS. THIRD PARTY WORK, NOT COVERED BY THE PERMITTEES PERMIT AND MAINTENANCE BOND, SHALL NOT BE ACCEPTED.
 - SHEETING, SHORING, AND BRACING: THE CONTRACTOR WILL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING EXCAVATION. TRENCH'S SIDE SLOPES SHALL MEET OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS THAT ARE IN EFFECT AT THE TIME OF CONSTRUCTION. SHEETING SHORING AND BRACING SHALL BE REQUIRED IF SIDE SLOPE STANDARDS ARE NOT MET. A PULL BOX, MEETING OSHA STANDARDS, WILL BE ACCEPTABLE. THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC, DETAILED PLANS AND SPECIFICATIONS FOR TRENCH SAFETY SYSTEMS THAT MEET OSHA STANDARDS HAT ARE IN EFFECT AT THE TIME OF DEVELOPMENT OF PROJECT WHEN TRENCH EXCAVATION WILL EXCEED A DEPTH OF FIVE (5) FEET. THESE PLANS WILL BE SEALED BY AN ENGINEER REGISTERED BY THE STATE OF TEXAS AND SUBMITTED TO THE CITY PRIOR TO OBTAINING RELEASE OF THE PUBLIC WORKS CONSTRUCTION PERMIT.
 - THE CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR CONCRETE AND GROUT FOR REVIEW AND ACCEPTANCE BY THE CITY PRIOR TO ANY PLACEMENT FOR ANY PUBLICLY DEDICATED INFRASTRUCTURE.
 - ALL EXISTING GRADES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. GRADES SHALL BE VERIFIED AND ANY DISCREPANCY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR EVALUATION AND ADJUSTMENTS AS NEEDED.
 - ALL BACKFILL FOR DITCH LINES ARE TO BE MECHANICALLY TAMPED TO 95% STD PROCTOR DENSITY (ASTM D698), AT A MOISTURE CONTENT NEAR OPTIMUM (-2% TO +2%, OR AS SPECIFIED BY THE ENGINEER OF RECORD). COSTS OF TESTING SERVICES FOR PRIVATE DEVELOPMENT, ON INFRASTRUCTURE THAT IS TO BE DEDICATED TO THE CITY, SHALL BE PAID BY THE DEVELOPER/CONTRACTOR. TESTING SHALL COMPLY WITH THE CITY STANDARDS AND THE CURRENT STANDARD DETAILS. ALL TEST REPORTS FOR PUBLIC INFRASTRUCTURE SHALL BE PROVIDED TO THE CITY IN A TIMELY MANNER. COSTS FOR RE-TESTING AFTER NOTED FAILURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR TO FILL ALL VOIDS UNDER EXISTING PAVEMENT WHEN INSTALLING NEW LINE. ALSO ALL DITCH LINES MUST BE FILLED AT THE END OF EACH DAY'S WORK. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROPER CITY DEPARTMENTS FOR ANY TRENCHES THAT ARE TO LEFT OPEN OVERNIGHT AND SHALL PROPERLY MARK AND PROTECT THE TRENCH.
 - ALL PIPES SHALL BE KEPT FREE OF TRASH AND DIRT AT ALL TIME. AT THE END OF EACH DAY, THE PIPE SHALL BE TEMPORARILY SEALED/CONNECTED. ALL PIPE INSTALLATION SHALL BE PERFORMED AS RECOMMENDED PER THE PIPE MANUFACTURER.
 - THE CONTRACTOR SHALL KEEP THE EXISTING FIRE HYDRANT(S) IN SERVICE AT ALL TIMES, TO THE EXTENT POSSIBLE. THE CONTRACTOR SHALL BAG OR MARK FIRE HYDRANTS PROPERTY AND NOTIFY THE FIRE DEPARTMENT UPON REMOVING ANY HYDRANT FROM SERVICE. CONSTRUCTION THAT CAUSES THE INTERRUPTION OF WATER SUPPLY FOR FIRE SUPPRESSION MAY REQUIRE A FIRE WATCH TO BE PERFORMED BY THE FIRE DEPARTMENT. COSTS FOR FIRE WATCH SERVICES ARE AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL MAINTAIN THE EXISTING WATER MAINS IN SERVICE DURING ALL PHASES OF CONSTRUCTION. LEAKS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. LEAKS ALONG THE EXISTING WATER MAIN CLOSE TO THE WORKING AREA, CAUSED BY VIBRATION, ETC. (DURING WORKING HOURS) SHALL BE REPAIRED BY THE CONTRACTOR WITH THE CITY ONLY PROVIDING THE REQUIRED PARTS. THE CITY WILL REPAIR ALL LEAKS IF THE CONTRACTOR IS NOT ON THE JOB-SITE (PRIMARILY AFTER WORKING HOURS); IF THE LEAK IS DIRECTLY CAUSED BY THE CONTRACTOR AND NOT REPAIRED, ALL CHARGES INCURRED SHALL BE BILLED TO THE CONTRACTOR.
 - ALL CUTTING AND PLUGGING OF THE EXISTING WATER MAIN, WHERE SPECIFIED ON THE PLANS, SHALL INCLUDE ALL LABOR, FITTINGS AND APPURTENANCES REQUIRED TO PERFORM THIS WORK.
 - THE CONTRACTOR SHALL CONTACT THE ASSIGNED INSPECTOR FOR THE OPERATION OF ALL WATER VALVES & SCHEDULING OF SERVICES BY WATER/WASTEWATER.
 - THE CONTRACTOR SHALL MAINTAIN THE EXISTING WATER MAINS AND SERVICES IN OPERATION WHEN INSTALLING NEW WATER MAINS. THIS SHALL INCLUDE ANY TEMPORARY CONNECTIONS, IF REQUIRED.
 - THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER A MINIMUM OF 24 HOURS PRIOR TO SHUTTING OFF WATER FOR CONNECTION TO NEW MAIN. THE CONTRACTOR SHALL NOTIFY THE ENGINEERING CONSTRUCTION INSPECTOR A MINIMUM OF 72 HOURS IN ADVANCE FOR ALL WATER OR WASTEWATER LOCATES OR SHUT OFFS OF WATER. THE LENGTH OF TIME FOR WATER SHUTDOWNS SHALL BE LIMITED TO AS NEEDED TO PERFORM THE REQUIRED WORK.
 - THE CONTRACTOR SHALL MAINTAIN THE EXISTING WASTEWATER MAINS AND SERVICES IN OPERATION WHEN INSTALLING NEW WASTEWATER MAINS. THIS SHALL INCLUDE ANY TEMPORARY CONNECTIONS, IF REQUIRED.
 - THE MAXIMUM DEFLECTION OF PIPE JOINTS SHALL NOT EXCEED THAT RECOMMENDED BY THE PIPE MANUFACTURE. IF IT IS NECESSARY TO DEFLECT THE PIPE (GREATER THAN THE RECOMMENDED AMOUNT) THE CONTRACTOR SHALL PROVIDE FITTINGS AS NEEDED.
 - PRIOR TO THE START OF CONSTRUCTION, THE ENGINEERING CONSTRUCTION INSPECTOR, CITY WATER/WASTEWATER REPRESENTATIVE AND THE CONTRACTOR SHALL MAKE A DRY RUN TO THE SYSTEM TO INSURE, TO THE EXTENT POSSIBLE, THAT THE UTILITY CAN BE FOUND AND SECURED. ANY ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD TO PROVIDE WRITTEN DIRECTION AND PROVIDE REVISED PLANS AS NEEDED.
 - TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE CITY TRANSPORTATION SERVICES DEPARTMENT/TXDOT. THE TRAFFIC CONTROL PLAN AND BARRICADES SHALL MAINTAIN TRAFFIC FLOW AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TMTUCD AND PREPARED BY A WORK ZONE CERTIFIED TECHNICIAN. TRAFFIC CONTROL PLANS SHALL BE SUBMITTED A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK COMMENCING. TEMPORARY STREET CLOSURE REQUESTS SHALL BE SUBMITTED IN WRITING.
 - ALL PAVEMENT MARKINGS, INCLUDING RAISED PAVEMENT MARKERS, LANE STRIPING, TRANSVERSE MARKINGS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES, DISTURBED DURING CONSTRUCTION SHALL BE MAINTAINED, REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
 - ALL DETENTION/RETENTION BASINS SHALL BE SODDED WITH GRASS, LANDSCAPED, AND IRRIGATED IN ACCORDANCE WITH CITY STANDARDS. ALL SUCH BASINS SHALL HAVE A DRAINAGE AND DETENTION EASEMENT DEDICATED TO THE CITY, INCORPORATING THE BASIN AND THE OUTFALL SYSTEM(S) THAT CONVEYS STORM FLOWS TO THE PUBLIC STORM DRAIN SYSTEM. THE OWNER/DEVELOPER (HEIRS AND ASSIGNS) SHALL BE BOUND WITH OPERATIONS AND MAINTENANCE OF ALL SUCH BASINS.
 - SEED/SOD SHALL BE FURNISHED TO ESTABLISH GROUND COVER OVER ALL DISTURBED AREAS AS AN EROSION CONTROL MEASURE. THE CONTRACTOR SHALL NOT WAIT UNTIL THE COMPLETION OF THE ENTIRE PROJECT BEFORE DOING THIS WORK.

WATER AND SANITARY SEWER GENERAL NOTES

- UNLESS OTHERWISE NOTED ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS AND STANDARDS OF THE CITY OF EULESS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS - "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION.
- ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) GUIDELINES FOR CONSTRUCTION OF PUBLIC WATER AND SEWER SYSTEMS. CONTRACTOR SHALL MAINTAIN A COPY OF THE DESIGN DOCUMENTS AT THE JOBSITE AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER AND WATER SERVICE AT ALL TIMES DURING CONSTRUCTION.
- THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY AND UTILITY COMPANY RECORDS AND PLANS, AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS, ELEVATIONS AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. THE CITY OF EULESS ENGINEERING DEPARTMENT SHALL BE NOTIFIED WHEN PROPOSED SANITARY SEWER OR WATER LINE GRADES CONFLICT WITH EXISTING UTILITY LINES. AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF EXISTING UTILITIES, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TO LOCATE ALL UNDERGROUND UTILITIES.
- ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE UNLESS NOTED OTHERWISE
- ALL WATER MAINS SHALL BE C-900, DR-14 PVC PIPE.
- ALL SANITARY SEWER LINES SHALL BE D-3034, SDR-35 PVC PIPE AT DEPTHS OF LESS THAN 10 FEET. SDR-26 PVC PIPE SHALL BE USED AT DEPTHS OF 10 FEET OF GREATER. SDR-26 PVC PIPE MAY BE USED AT DEPTHS OF LESS THAN 10 FEET.
- THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN PRIOR TO BEGINNING HIS WORK.
- ALL SANITARY SEWER LINES AND WATER MAINS SHALL HAVE A MINIMUM COVER OF FORTY-EIGHT INCHES (48") TO THE TOP OF PIPE.
- ALL WATER MAIN FITTINGS SHALL BE MECHANICAL AND SHALL BE POLYWRAPPED.
- PIPE EMBEDMENT AND THRUST BLOCKING SHALL BE PER "CITY OF EULESS STANDARD DETAILS."
- INDIVIDUAL WATER SERVICE AND SANITARY SEWER SERVICE LOCATIONS SHALL BE PERMANENTLY MARKED WITH A STAMP ("W" FOR WATER AND "S" FOR SANITARY MINIMUM OF FOUR INCHES (4") IN HEIGHT.
- ALL PROPOSED WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED AND STERILIZED AND MEET ALL FEDERAL AND STATE TESTING REQUIREMENTS.
- ALL FIRE HYDRANTS SHALL BE A TYPE APPROVED BY THE CITY OF EULESS AND SHALL BE INSTALLED AND COLOR-CODED IN ACCORDANCE WITH ALL THE CITY OF EULESS REQUIREMENTS.
- WHERE A SANITARY SEWER SERVICE LINE TIES INTO A MANHOLE, THE SERVICE SHALL BE RAISED ABOVE THE FLOWLINE OF THE MAIN BY SIX INCHES (6") TO ALLOW FOR MAINTENANCE RELATED ISSUES.
- "FLOWABLE FILL" BACKFILL SHALL BE USED FOR ALL MANHOLES UNDER PAVEMENT.

PAVING AND STORM DRAINAGE GENERAL NOTES

- THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE DEVELOPMENT PLANS RELEASED FOR CONSTRUCTION. THE CONTRACTOR SHALL INSURE THAT ALL EROSION CONTROL MEASURES ARE MAINTAINED AT ALL TIMES IN A CONDITION ACCEPTABLE TO THE PUBLIC WORKS ENGINEERING INSPECTOR.
- THE CONTRACTOR SHALL NOT STOCKPILE ANY MATERIAL ADJACENT TO ANY CREEK WITHOUT THE WRITTEN AUTHORIZATION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL NOT ALLOW SOIL AND DEBRIS TO ENTER EXISTING INLETS. ALL INLETS SHALL BE PROTECTED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOT DISPOSE OF WASTE OR ANY OTHER MATERIALS INTO STREAMS OR WATERWAYS. EXCESS MATERIAL SHALL BE HAULED OFF-SITE EACH DAY AND WILL NOT BE ALLOWED TO ACCUMULATE.
- THE CONTRACTOR SHALL NOT BURY RUBBISH OR WASTE MATERIALS ON-SITE. BURNING MATERIALS WILL NOT BE ALLOWED WITHOUT PROPER WRITTEN AUTHORIZATION FROM THE EULESS FIRE DEPARTMENT.
- THE CONTRACTOR SHALL WET DOWN THE CONSTRUCTION SITE AS DIRECTED BY THE PUBLIC WORKS ENGINEERING INSPECTOR TO PREVENT BLOWING DUST.
- THE CONTRACTOR SHALL CLEAN STREETS ADJACENT TO THE CONSTRUCTION SITE TO REMOVE MATERIALS DEPOSITED BY CONSTRUCTION VEHICLES ENTERING AND LEAVING THE CONSTRUCTION SITE. THE PUBLIC WORKS ENGINEERING INSPECTOR WILL DETERMINE THE SCHEDULE FOR CLEANING.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MONITOR ALL WARNING AND SAFETY DEVICES (FLASHING LIGHTS, BARRICADES, SIGNS, ETC.) AS DEEMED NECESSARY BY THE CITY OF EULESS. WARNING AND SAFETY DEVICES SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY IN THE FIELD THE LOCATIONS, ELEVATIONS AND SIZES OF CONFLICTING AND / OR ADJACENT UTILITIES IN ADVANCE OF BEGINNING CONSTRUCTION.
- THE CITY OF EULESS STANDARD DETAILS SHALL SUPERSEDE ANY DETAILS CONTAINED WITHIN THE PLAN SET.
- UNLESS OTHERWISE NOTED, ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS AND STANDARDS TO THE CITY OF EULESS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS - "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION.
- CONCRETE FOR STREET PAVEMENT (FIRE LANES) SHALL BE 4200 PSI COMPRESSIVE STRENGTH. FLY ASH WILL NOT BE PERMITTED IN CONCRETE.
- CONCRETE FOR STORM DRAIN INLETS AND STRUCTURES SHALL BE AS SHOWN ON THE PLANS BUT IN NO CASE LESS THAN 3000 PSI COMPRESSIVE STRENGTH.
- ALL STORM SEWER DRAINAGE PIPE SHALL BE CLASS III OR GREATER ASTM C-76 RCP WITH TONGUE AND GROOVE CONNECTIONS.
- ALL BENDS, WYES AND REDUCERS SHALL BE PREFABRICATED BY THE SUPPLIER.
- THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN PRIOR TO BEGINNING OF WORK, AND HAVE A COMPETENT PERSON ON SITE AT ALL TIMES. HE SHOULD BE KNOWLEDGEABLE OF SUCH A PLAN AND HAVE THE AUTHORITY TO IMPLEMENT SAME WHERE TRENCHES OVER 5 FEET (5') IN DEPTH ARE ENCOUNTERED.
- ALL STORM SEWER PIPE JOINTS SHALL USE OMNI-FLEX JOINT SEALER OR AN APPROVED EQUAL.

no.	revision	by	date

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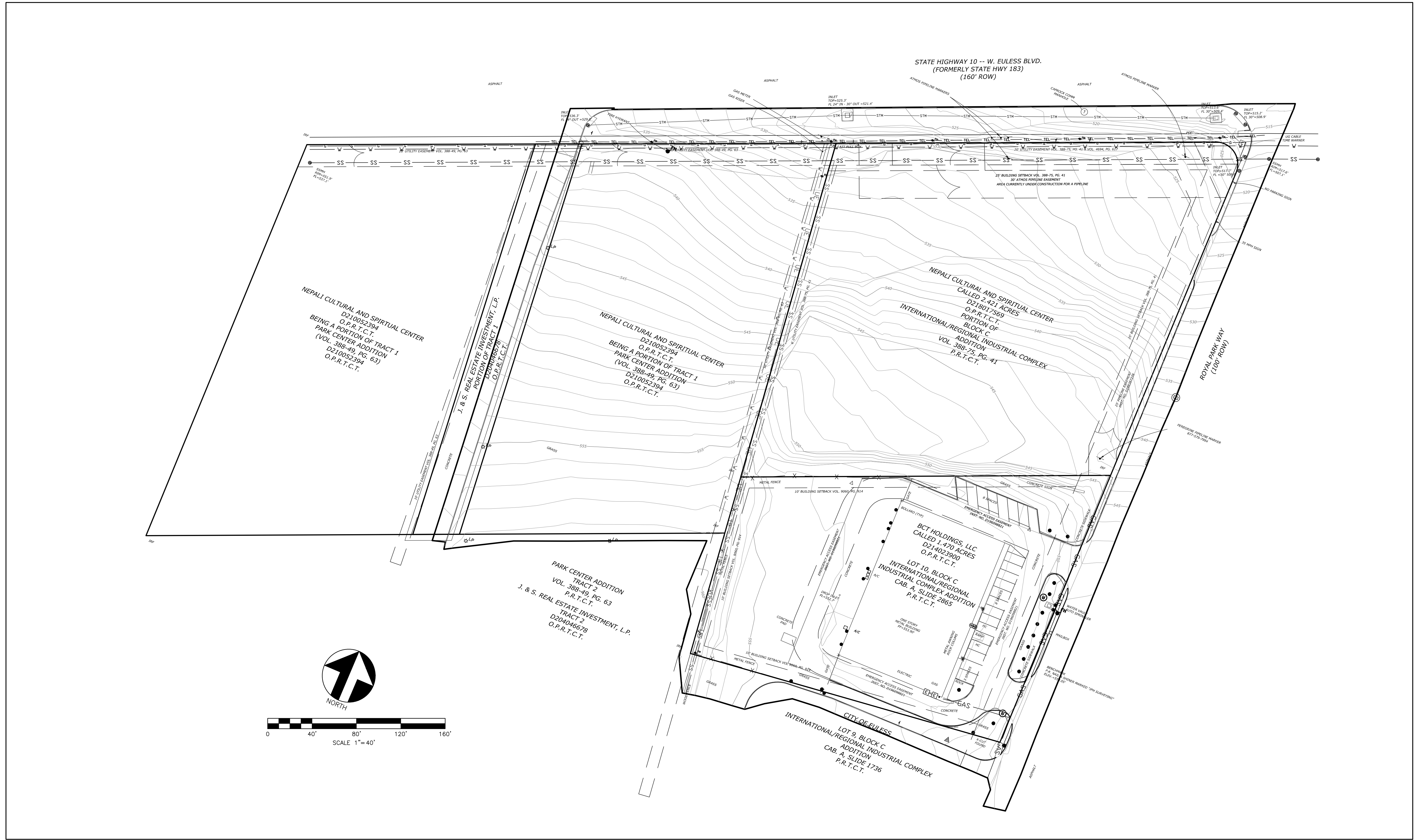
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horiz N/A
vert N/A
date
MAY 2021



PRELIMINARY PLAN
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GENERAL NOTES
NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO. JN 1120
sheet
2
of
23



no.	revision	by	date

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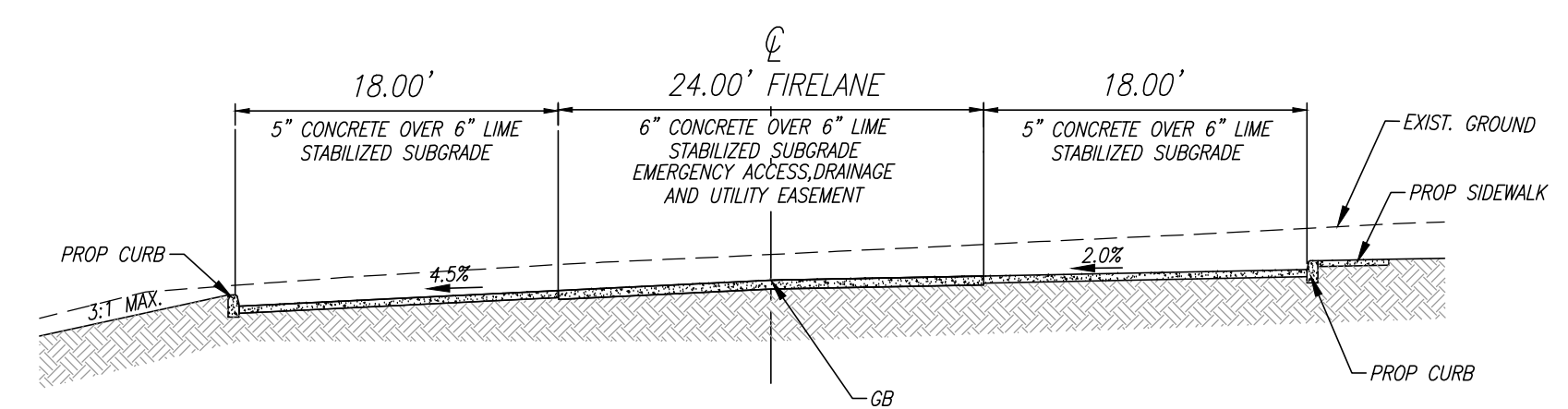
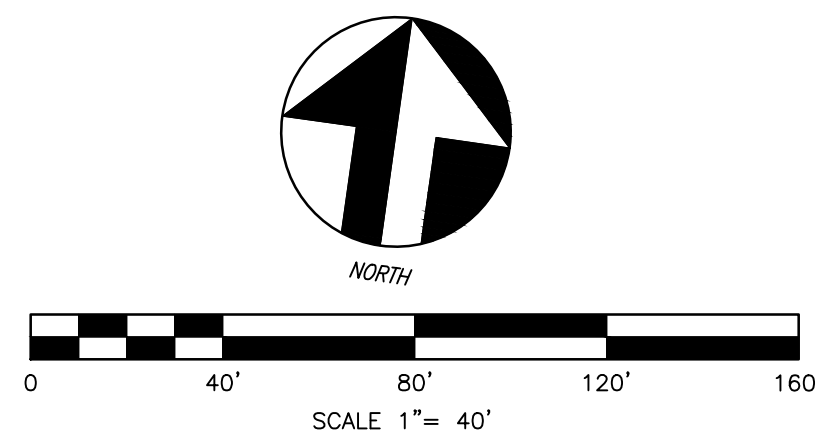
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EXISTING SURVEY
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JN 1120
 sheet
 3
 of
 23






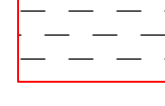

TYPICAL DRIVEWAY SECTION
NOT TO SCALE

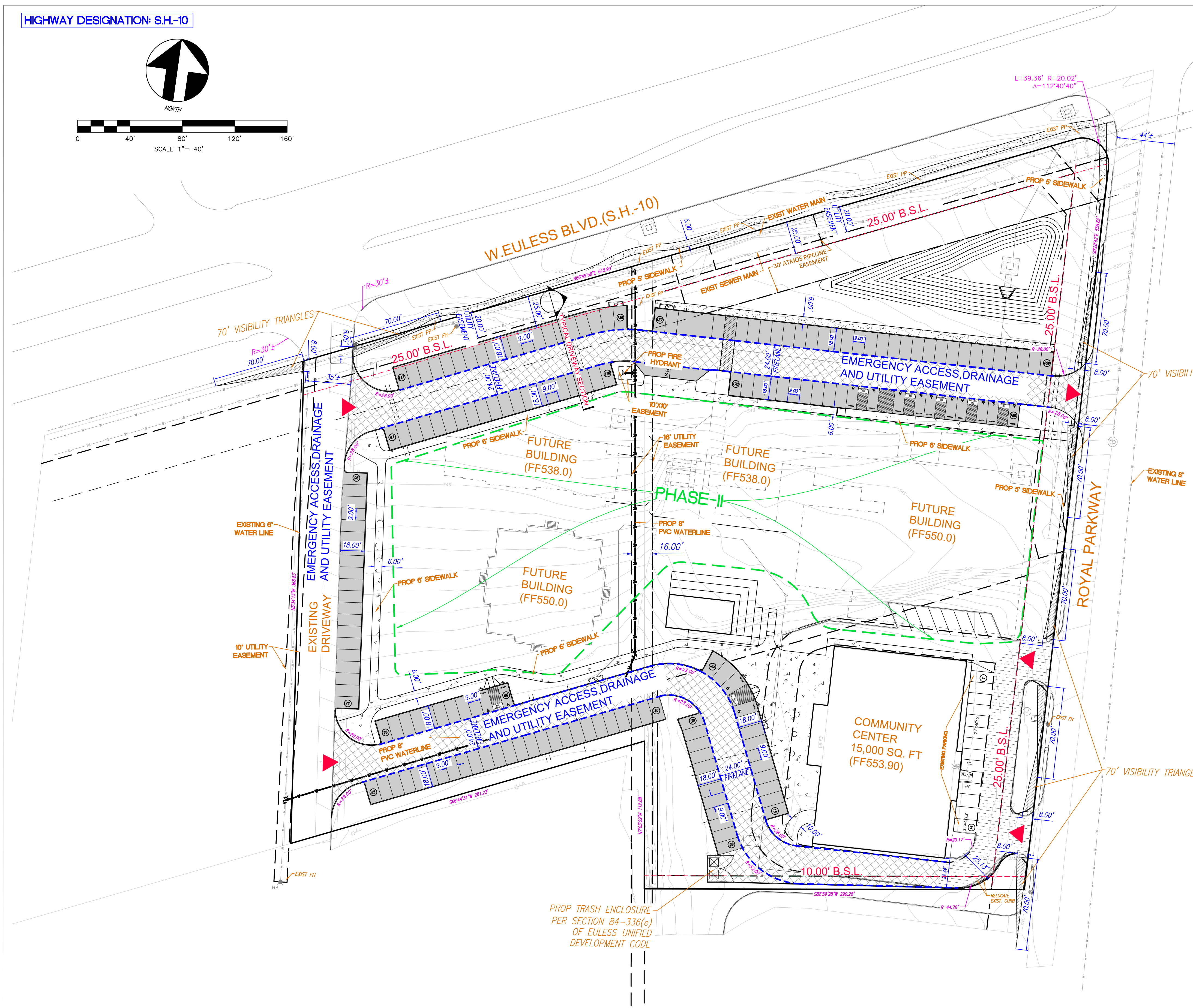
LANDSCAPING CALCULATIONS

STREETYARD: 181,533 S.F.
LANDSCAPING: 153,069 S.F.

TOTAL PARKING: 189 COMBINED
 TEMPLE PARKING :130
 STANDARD: 118
 HANDICAP: 12
 COMMUNITY CENTER PARKING :59
 STANDARD: 55
 HANDICAP: 4

LEGEND

-  6" CONCRETE PAVEMENT(MIN. 4200 PSI COMPRESSIVE,)#4 BARS @ 18" CENTERS EACH WAY OVER 6" COMPACTED SUBGRADE
-  5" CONCRETE PAVEMENT(MIN. 3500 PSI COMPRESSIVE, 500 PSI FLEXURAL), # 3 BARS @ 18" CENTERS EACH WAY OVER 6" COMPACTED SUBGRADE.
-  4" CONCRETE PAVEMENT(MIN. 3000 PSI) OVER 2" COMPACTED SAND BEDDING
-  EXISTING DRIVEWAY
-  PHASE II CONSTRUCTION



PREPARATION DATE: 6 May 2021

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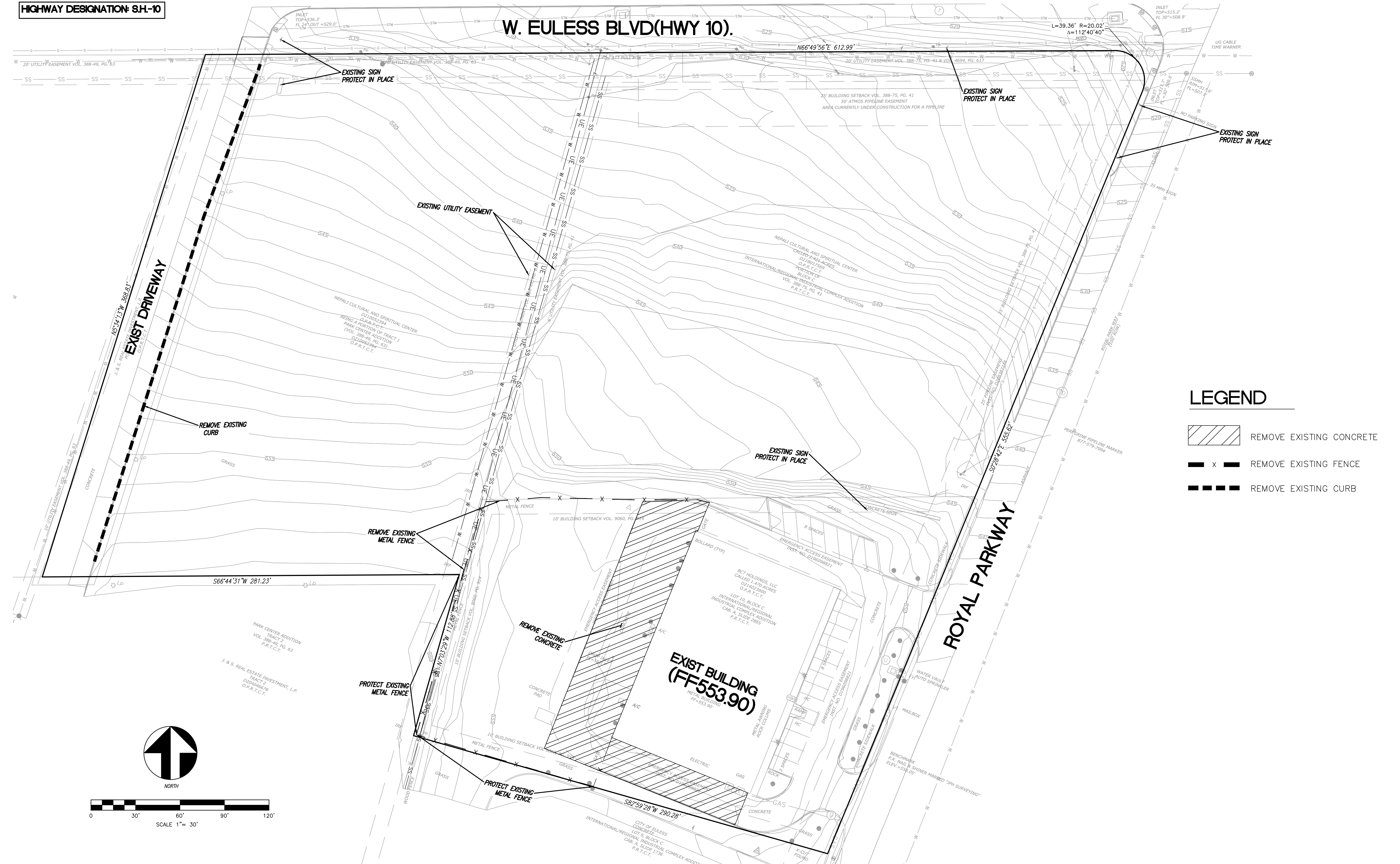


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SITE PLAN
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
JN 1120
sheet
4
of
23

W. EULESS BLVD(HWY 10).

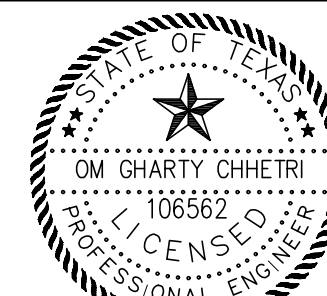


LEGEND

-  REMOVE EXISTING CONCRETE
-  REMOVE EXISTING FENCE
-  REMOVE EXISTING CURB

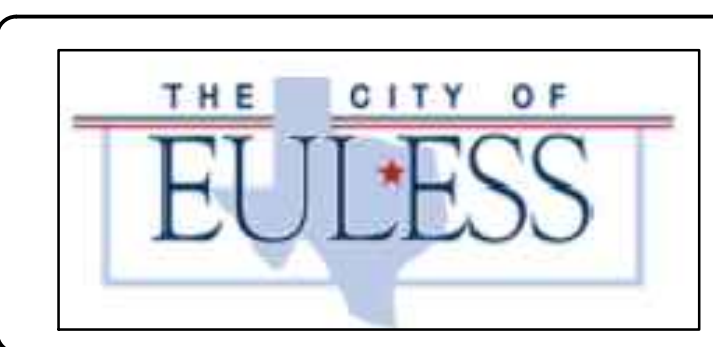
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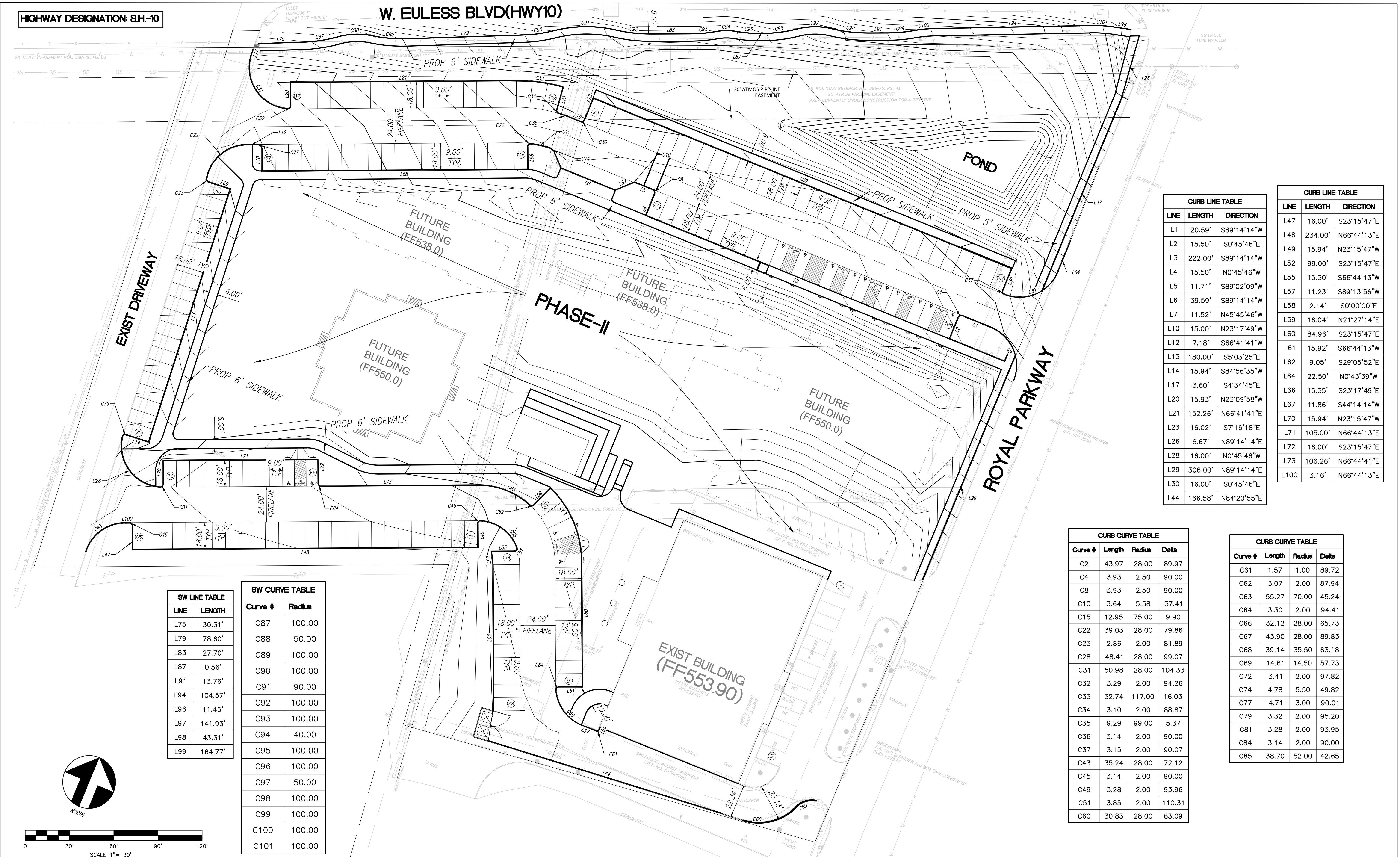
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DEMOLITION PLAN
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JUN 1120
 sheet
5
 of
 23

HIGHWAY DESIGNATION: S.H.-10

W. EULESS BLVD(HWY10)



CURB LINE TABLE		
LINE	LENGTH	DIRECTION
L1	20.59'	S89°14'14"W
L2	15.50'	S0°45'46"E
L3	222.00'	S89°14'14"W
L4	15.50'	N0°45'46"W
L5	11.71'	S89°02'09"W
L6	39.59'	S89°14'14"W
L7	11.52'	N45°45'46"W
L10	15.00'	N23°17'49"W
L12	7.18'	S66°41'41"W
L13	180.00'	S5°03'25"E
L14	15.94'	S84°56'35"W
L17	3.60'	S4°34'45"E
L20	15.93'	N23°09'58"W
L21	152.26'	N66°41'41"E
L23	16.02'	S7°16'18"E
L26	6.67'	N89°14'14"W
L28	16.00'	N0°45'46"W
L29	306.00'	N89°14'14"E
L30	16.00'	S0°45'46"E
L44	166.58'	N84°20'55"E

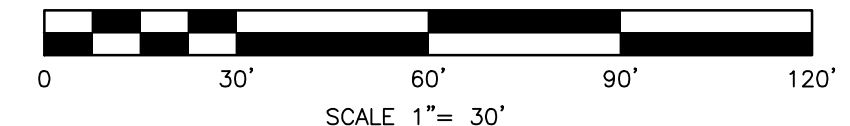
CURB LINE TABLE		
LINE	LENGTH	DIRECTION
L47	16.00'	S23°15'47"E
L48	234.00'	N66°44'13"E
L49	15.94'	N23°15'47"W
L52	99.00'	S23°15'47"E
L55	15.30'	S66°44'13"W
L57	11.23'	S89°13'56"W
L58	2.14'	S0°00'00"E
L59	16.04'	N21°27'14"E
L60	84.96'	S23°15'47"E
L61	15.92'	S66°44'13"W
L62	9.05'	S29°05'52"E
L64	22.50'	N0°43'39"W
L66	15.35'	S23°17'49"E
L67	11.86'	S44°14'14"W
L70	15.94'	N23°15'47"W
L71	105.00'	N66°44'13"E
L72	16.00'	S23°15'47"E
L73	106.26'	N66°44'41"E
L100	3.16'	N66°44'13"E

CURB CURVE TABLE			
Curve #	Length	Radius	Delta
C2	43.97	28.00	89.97
C4	3.93	2.50	90.00
C8	3.93	2.50	90.00
C10	3.64	5.58	37.41
C15	12.95	75.00	9.90
C22	39.03	28.00	79.86
C23	2.86	2.00	81.89
C28	48.41	28.00	99.07
C31	50.98	28.00	104.33
C32	3.29	2.00	94.26
C33	32.74	117.00	16.03
C34	3.10	2.00	88.87
C35	9.29	99.00	5.37
C36	3.14	2.00	90.00
C37	3.15	2.00	90.07
C43	35.24	28.00	72.12
C45	3.14	2.00	90.00
C49	3.28	2.00	93.96
C51	3.85	2.00	110.31
C60	30.83	28.00	63.09

CURB CURVE TABLE			
Curve #	Length	Radius	Delta
C61	1.57	1.00	89.72
C62	3.07	2.00	87.94
C63	55.27	70.00	45.24
C64	3.30	2.00	94.41
C66	32.12	28.00	65.73
C67	43.90	28.00	89.83
C68	39.14	35.50	63.18
C69	14.61	14.50	57.73
C72	3.41	2.00	97.82
C74	4.78	5.50	49.82
C77	4.71	3.00	90.01
C79	3.32	2.00	95.20
C81	3.28	2.00	93.95
C84	3.14	2.00	90.00
C85	38.70	52.00	42.65

SW LINE TABLE	
LINE	LENGTH
L75	30.31'
L79	78.60'
L83	27.70'
L87	0.56'
L91	13.76'
L94	104.57'
L96	11.45'
L97	141.93'
L98	43.31'
L99	164.77'

SW CURVE TABLE	
Curve #	Radius
C87	100.00
C88	50.00
C89	100.00
C90	100.00
C91	90.00
C92	100.00
C93	100.00
C94	40.00
C95	100.00
C96	100.00
C97	50.00
C98	100.00
C99	100.00
C100	100.00
C101	100.00



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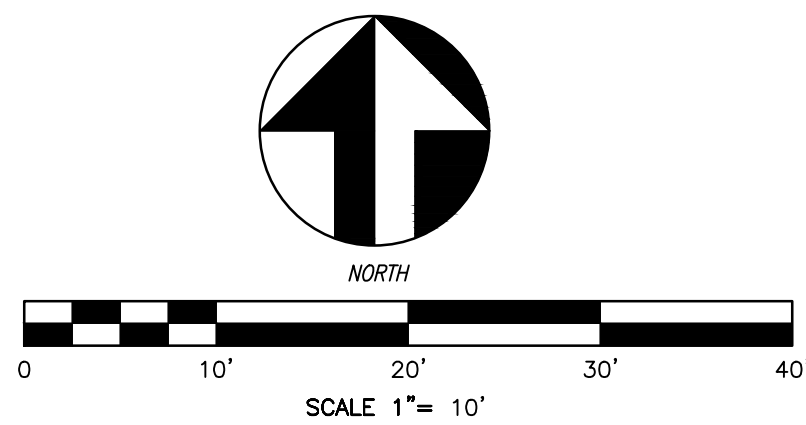
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HORIZONTAL CONTROL PLAN
NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
JUN 1120
sheet
6
of
23



W. EULESS BLVD.(S.H.-10)

CONSTRUCTION NOTE

1. CONSTRUCT 6" CURB MONOLITHIC TO PAVEMENT
2. CONSTRUCT 6" CONCRETE PAVEMENT OVER 6" LIME STABILIZED SUBGRADE AND PER GEOTECHNICAL REPORT
3. CONSTRUCT 5" CONCRETE PAVEMENT OVER 6" LIME STABILIZED SUBGRADE AND PER GEOTECHNICAL REPORT
4. CONSTRUCT TRASH ENCLOSURE
5. CONSTRUCT RAMP PER PED-18 DETAILS
6. CONSTRUCT SIDEWALK (WIDTH PER PLAN) PER CITY OF EULESS STD DWG NO. COE-SW
7. INSTALL ACCESSIBLE PARKING SPACE SIGNAGE AND SURFACE IDENTIFICATION MARKINGS
8. CONSTRUCT CONCRETE HEADWALL
9. PAINT 9' LONG BY 4" ANGLED WIDE YELLOW LINES AT 30° ON CENTER

DETAIL-A

NOTE: WORK IN TXDOT ROW REQUIRES TXDOT PERMIT

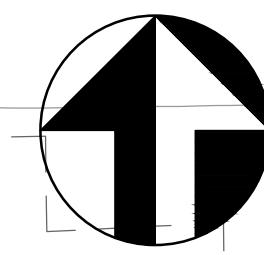
NOTE: SIDEWALK ALONG ROYAL PARKWAY IS ADA NON-COMPLIANT ON SLOPE. SIDEWALK FOLLOWS STREET GRADE (VARIES 5-12%)

W. EULESS BLVD.(S.H.-10)

POND

ROYAL PARKWAY

MATCHLINE SEE SHEET-8



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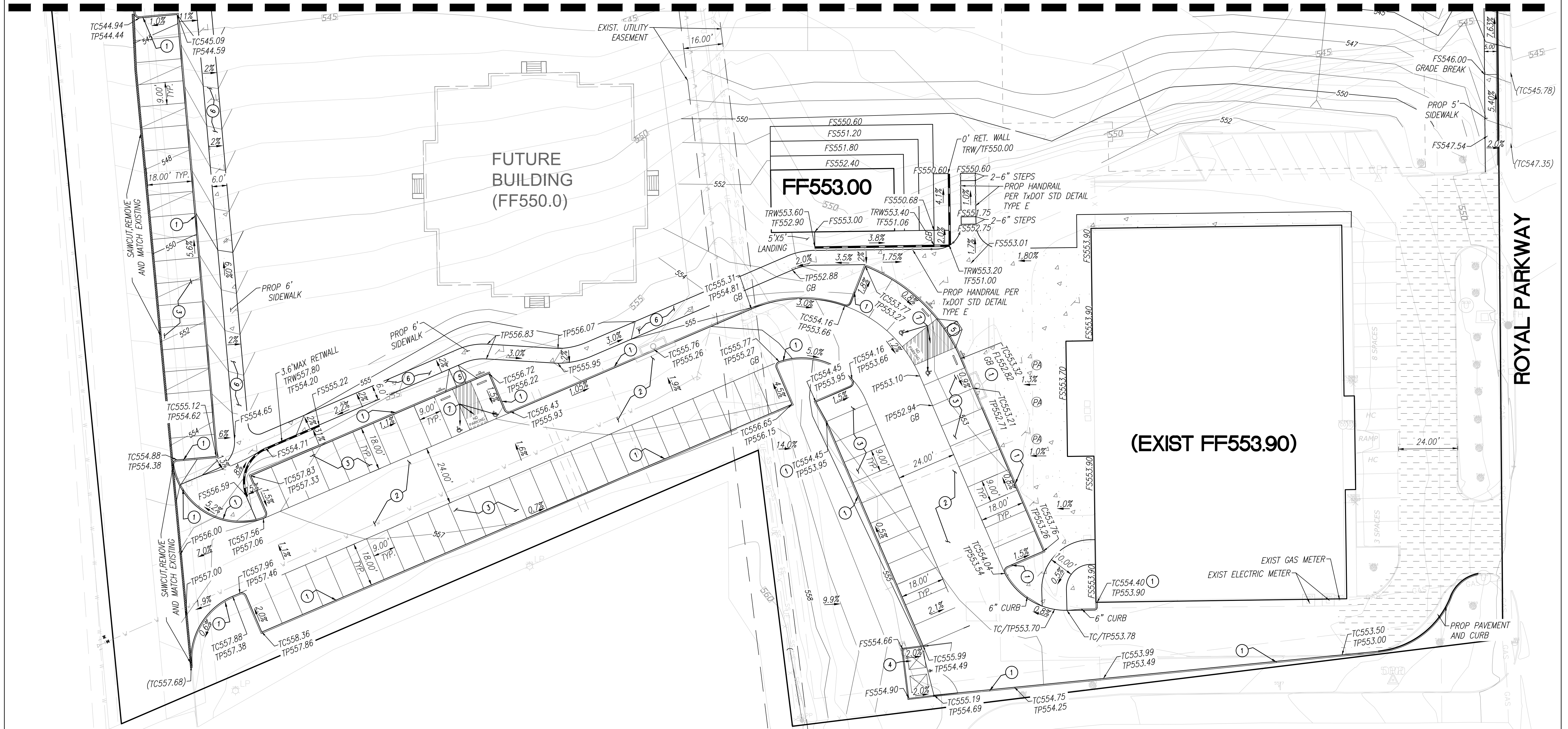


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GRADING PLANS
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

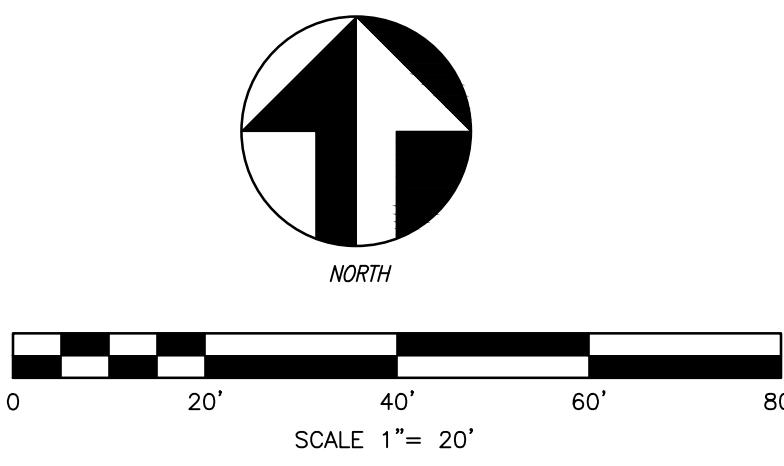
PROJECT NO.
 JN 1120
 sheet
7
 of
 23

MATCHLINE SEE SHEET-7



CONSTRUCTION NOTE

- ① CONSTRUCT 6" CURB MONOLITHIC TO PAVEMENT
- ② CONSTRUCT 6" CONCRETE PAVEMENT OVER 6" LIME STABILIZED SUBGRADE AND PER GEOTECHNICAL REPORT
- ③ CONSTRUCT 5" CONCRETE PAVEMENT OVER 6" LIME STABILIZED SUBGRADE AND PER GEOTECHNICAL REPORT
- ④ CONSTRUCT TRASH ENCLOSURE
- ⑤ CONSTRUCT RAMP PER PED-18 DETAILS
- ⑥ CONSTRUCT SIDEWALK (WIDTH PER PLAN) PER CITY OF EULESS STD DWG NO. COE-SW
- ⑦ INSTALL ACCESSIBLE PARKING SPACE SIGNAGE AND SURFACE IDENTIFICATION MARKINGS
- ⑧ CONSTRUCT CONCRETE HEADWALL
- ⑨ PAINT 9" LONG BY 4" ANGLED WIDE YELLOW LINES AT 30' ON CENTER



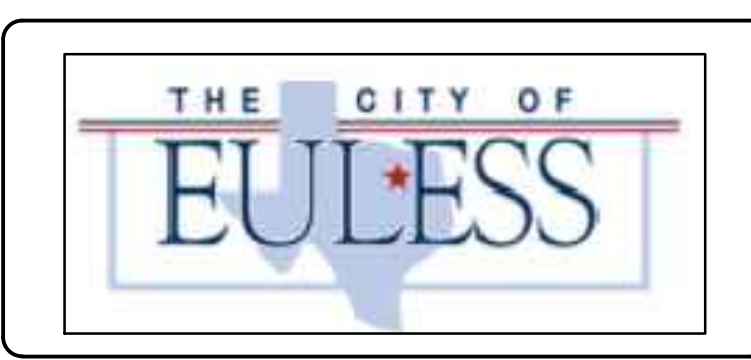
NOTE: SIDEWALK ALONG ROYAL PARKWAY IS ADA NON-COMPLIANT ON SLOPE. SIDEWALK FOLLOWS STREET GRADE (VARIES 5-12%)

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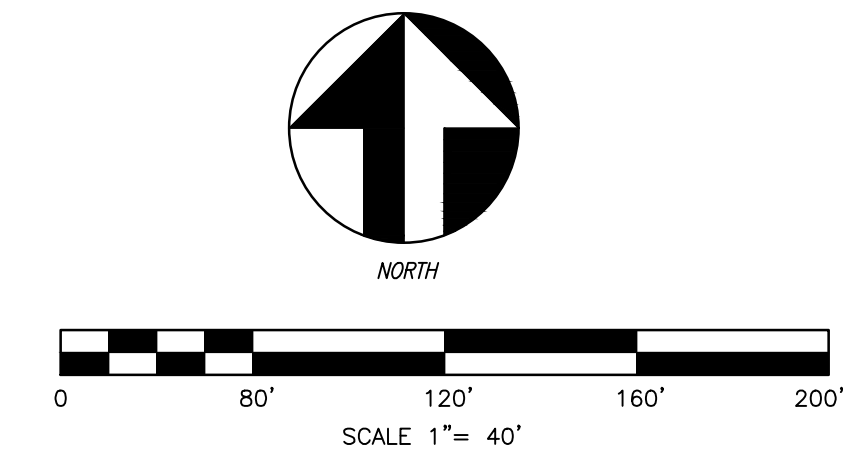
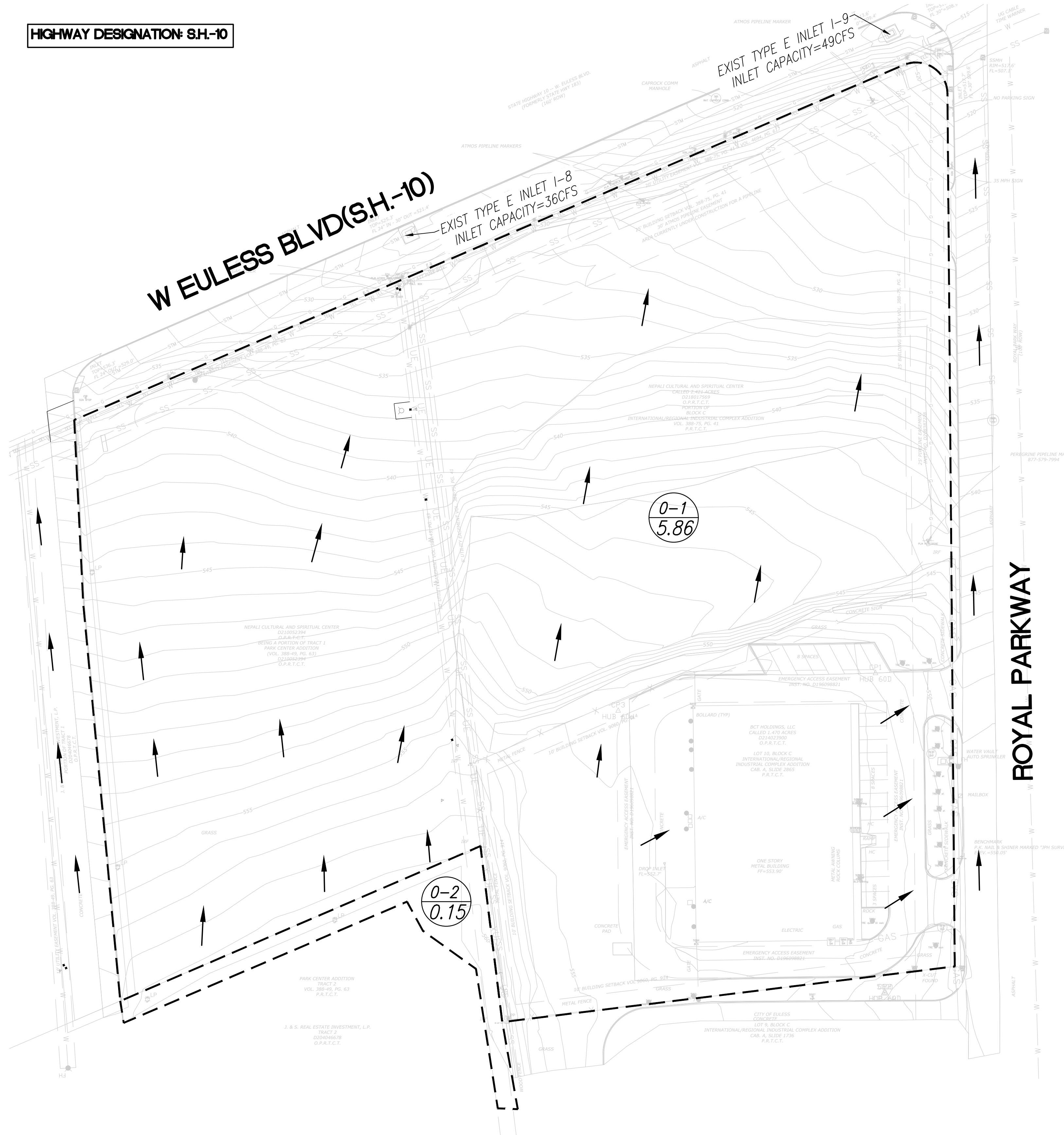


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GRADING PLANS
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JN 1120
 sheet
8
 of
 23

HIGHWAY DESIGNATION: SH-10



Q=CIA
 WHERE,
 C=RUNOFF COEFFICIENT
 I=RAINFALL INTENSITY
 A=DRAINAGE AREA

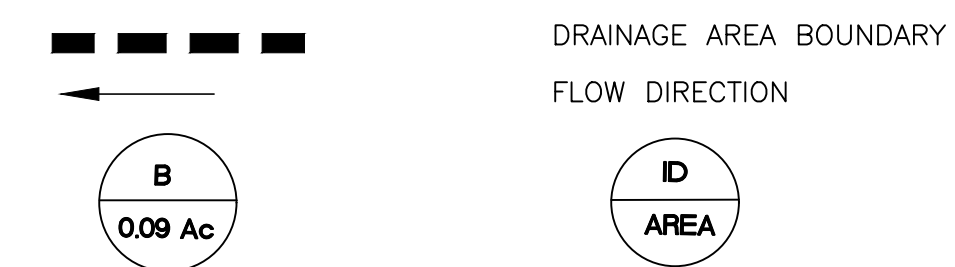
RUNOFF CALCULATION

PRE DEVELOPMENT

ID	AREA (ACRE)	RUNOFF COEFFICIENT	CONCENTRATION TIME (MIN)	INTENSITY (IN/HR)				RUNOFF (CFS)				REMARKS
				5 YRS	10 YRS	25 YRS	100 YRS	5 YRS	10 YRS	25 YRS	100 YRS	
0-1	5.855	0.30	15	5.5	6.6	7.8	9.8	9.67	11.59	13.70	17.23	DRAINS TO EXISTING DROP INLETS AT HWY 10
0-2	0.152	0.30	15	5.5	6.6	7.8	9.8	0.25	0.30	0.36	0.44	DRAINS TO SUBJECT PROPERTY AND TO EXISTING INLETS AT HWY10

NOTE- CURRENT TXDOT STORM DRAIN SYSTEM ARE DESIGNED TO CONVEY DEVELOPED Q5 RUNOFF FROM PROJECT SITE. REFER TXDOT PROJECT NO. CCSJ-0094-02-074.

LEGEND

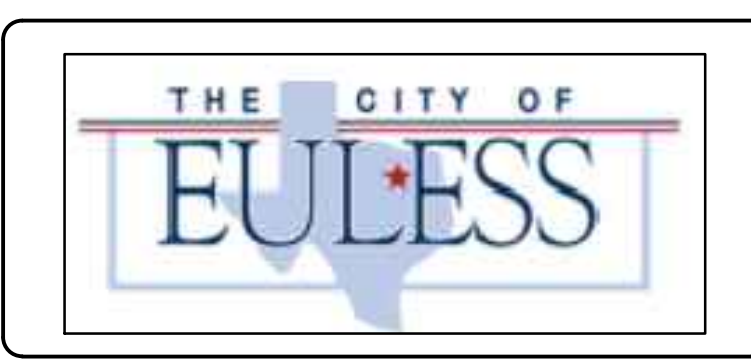


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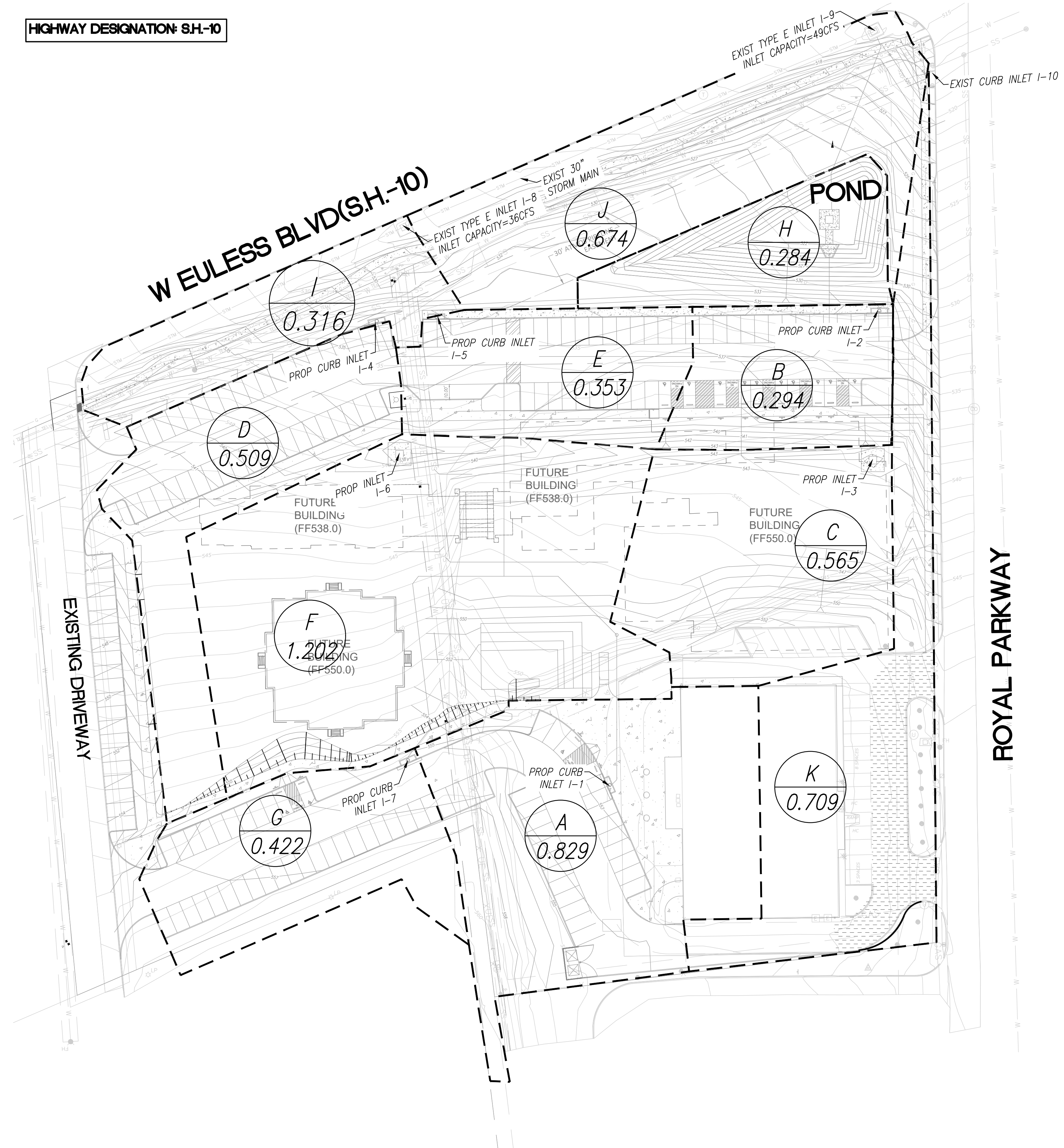
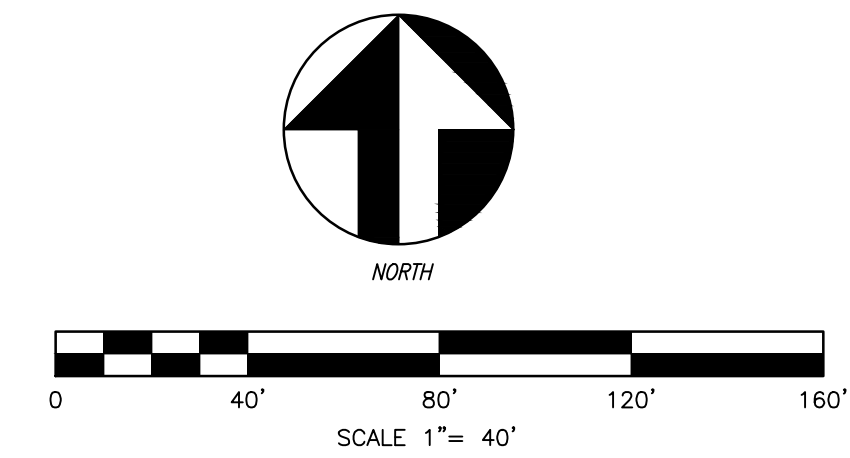


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EXISTING CONDITION DRAINAGE AREA MAP
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JN 1120
 sheet
9
 of
 23

HIGHWAY DESIGNATION: SH-10



Q=CIA

WHERE,
C=RUNOFF COEFFICIENT
I=RAINFALL INTENSITY
A=DRAINAGE AREA

RUNOFF CALCULATION

POST DEVELOPMENT

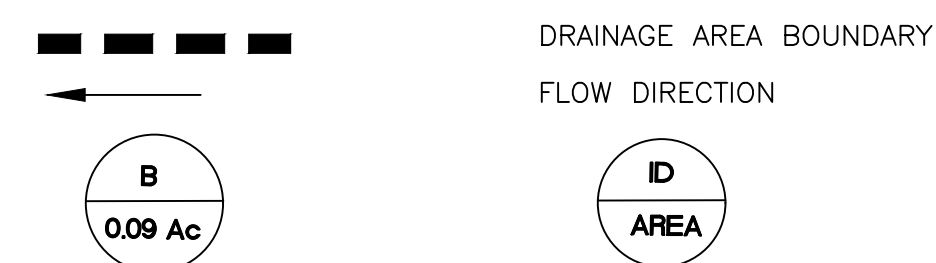
ID	AREA (ACRE)	RUNOFF COEFFICIENT	CONCENTRATION TIME (MIN)	INTENSITY (IN/HR)				RUNOFF (CFS)				REMARKS
				5 YRS	10 YRS	25 YRS	100 YRS	5 YRS	10 YRS	25 YRS	100 YRS	
A	0.829	0.90	10	6.6	7.8	9.3	11.9	4.92	5.82	6.95	8.88	DRAINS TO INLET I-1 & TO POND
B	0.294	0.90	10	6.6	7.8	9.3	11.9	1.75	2.06	2.46	3.15	DRAINS TO INLET I-2 & TO POND
C	0.565	0.90	10	6.6	7.8	9.3	11.9	3.35	3.98	4.74	6.05	DRAINS TO INLET I-3 & TO POND
D	0.509	0.90	10	6.6	7.8	9.3	11.9	3.02	3.57	4.26	5.45	DRAINS TO INLET I-4 & TO POND
E	0.353	0.90	10	6.6	7.8	9.3	11.9	2.10	2.49	2.97	3.78	DRAINS TO INLET I-5 & TO POND
F	1.202	0.90	10	6.6	7.8	9.3	11.9	7.14	8.42	10.04	12.87	DRAINS TO INLET I-6 & TO POND
G	0.422	0.90	10	6.6	7.8	9.3	11.9	2.50	2.96	3.53	4.52	DRAINS TO INLET I-7 & TO POND
H	0.284	0.90	10	6.6	7.8	9.3	11.9	1.69	2.00	2.38	3.04	DRAINS TO DETENTION POND
I	0.316	0.90	10	6.6	7.8	9.3	11.9	1.88	2.21	2.64	3.38	DRAINS TO EXIST INLET I-8 CAPACITY-36 CFS, PER TXDOT PLANS(SHEET 80) *
J	0.674	0.90	10	6.6	7.8	9.3	11.9	4.00	4.73	5.65	7.21	DRAINS TO EXIST INLET I-9 CAPACITY-49 CFS, PER TXDOT PLANS(SHEET 80) *
K	0.709	0.90	10	6.6	7.8	9.3	11.9	4.21	4.98	5.93	7.59	DRAINS TO EXIST INLET I-10

POND SUMMARY

AREA (ACRE)	PEAK RUNOFF (INFLOW) (CFS)				PEAK RUNOFF (OUTFLOW) (CFS)				REMARKS
	5 YRS	10 YRS	25 YRS	100 YRS	5 YRS	10 YRS	25 YRS	100 YRS	
4.46	26.47	25.00	37.33	47.74	15.98	18.09	19.70	22.32	AREA A-G DRAINS TO POND, ALLOWABLE PEAK RELEASE RATE (Q5)=26.47 < 22.32 (ACTUAL)

*NOTE- CURRENT TXDOT STORM DRAIN SYSTEM ARE DESIGNED TO CONVEY DEVELOPED Q5 RUNOFF FROM PROJECT SITE. REFER TXDOT PROJECT NO. CCSJ-0094-02-074.

LEGEND

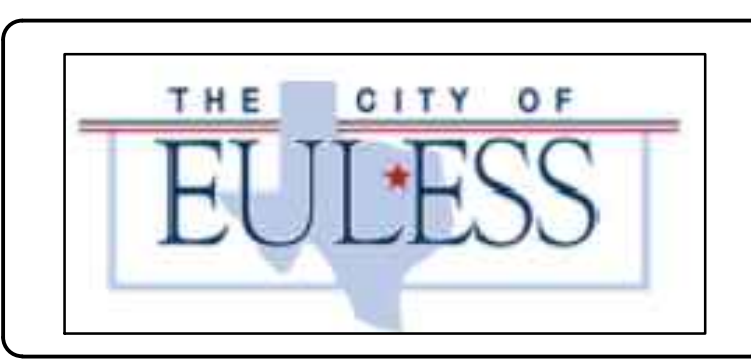


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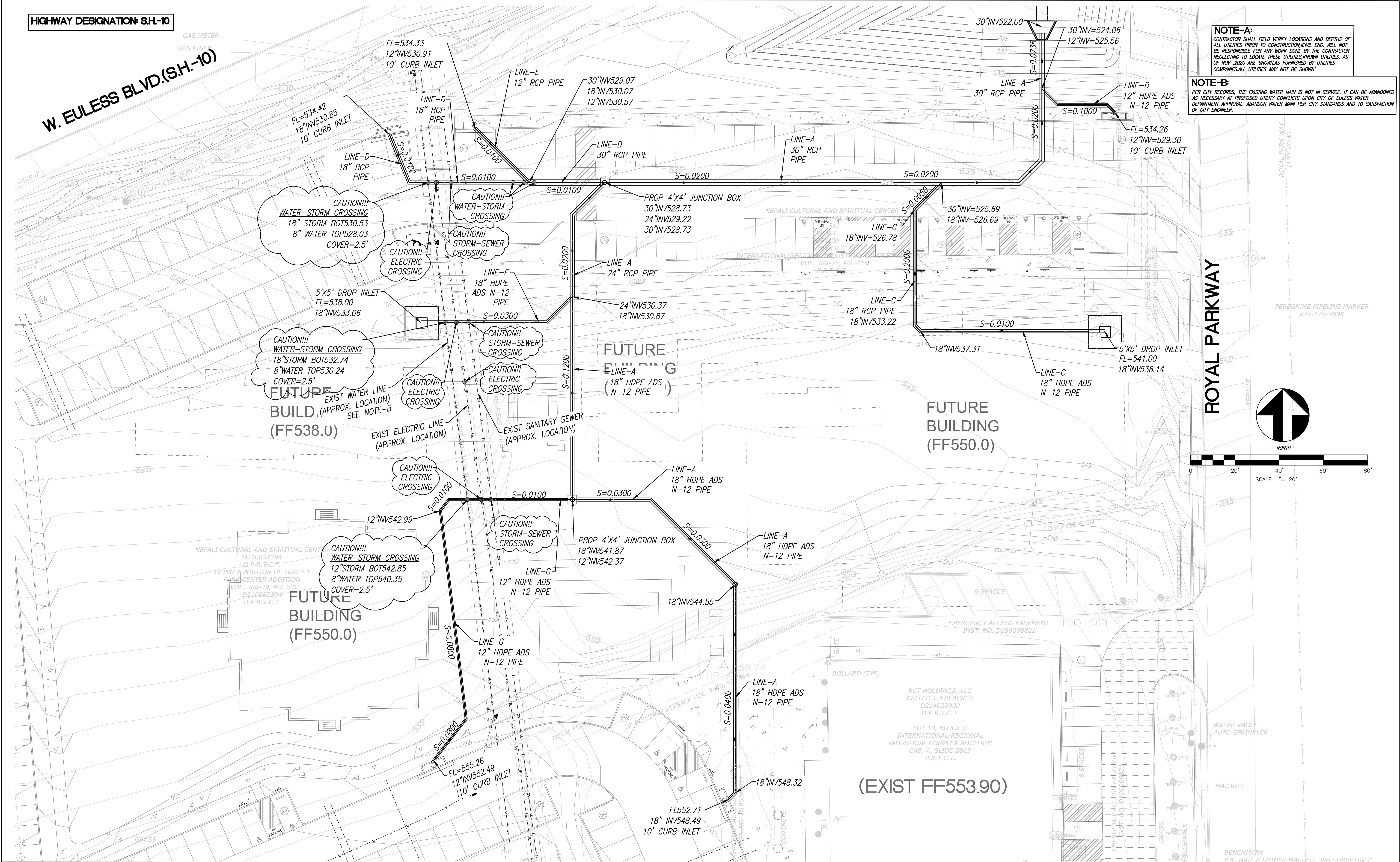
PROPOSED CONDITION DRAINAGE AREA MAP
NEPALI CULTURAL AND SPIRITUAL CENTER
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1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
JN 1120
sheet
10
of
23

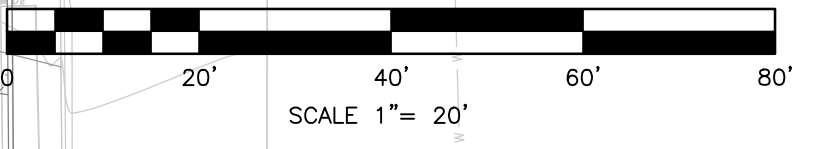
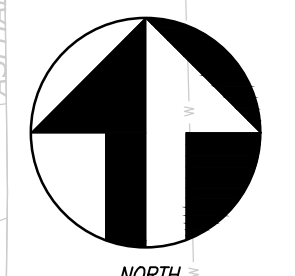
W. EULESS BLVD.(S.H.-10)

NOTE-A:
CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES PRIOR TO CONSTRUCTION. CIVIL ENG. WILL NOT BE RESPONSIBLE FOR ANY WORK DONE BY THE CONTRACTOR NEGLECTING TO LOCATE THESE UTILITIES. KNOWN UTILITIES, AS OF NOV. 2020 ARE SHOWN AS FURNISHED BY UTILITIES COMPANIES. ALL UTILITIES MAY NOT BE SHOWN.

NOTE-B:
PER CITY RECORDS, THE EXISTING WATER MAIN IS NOT IN SERVICE. IT CAN BE ABANDONED AS NECESSARY AT PROPOSED UTILITY CONFLICTS UPON CITY OF EULESS WATER DEPARTMENT APPROVAL. ABANDON WATER MAIN PER CITY STANDARDS AND TO SATISFACTION OF CITY ENGINEER.



ROYAL PARKWAY



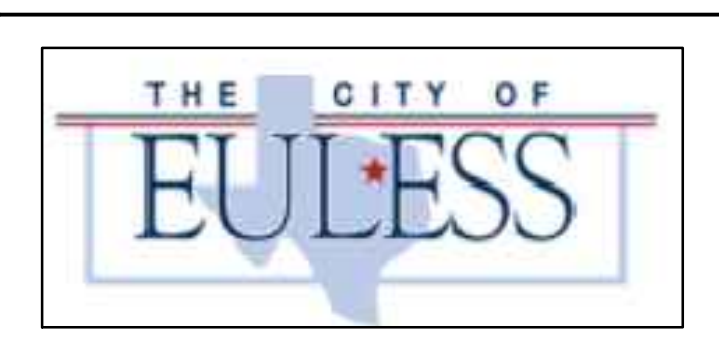
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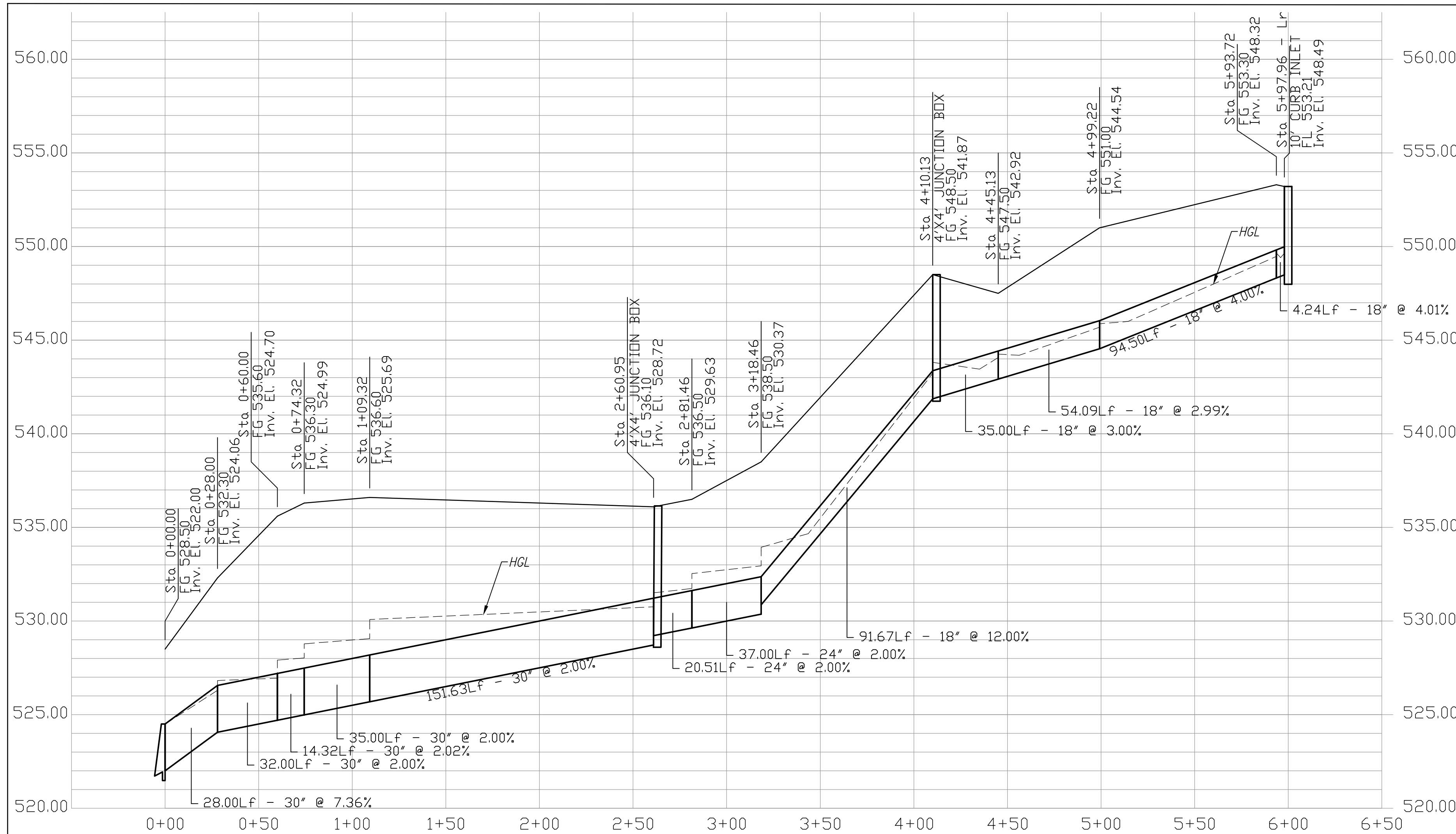
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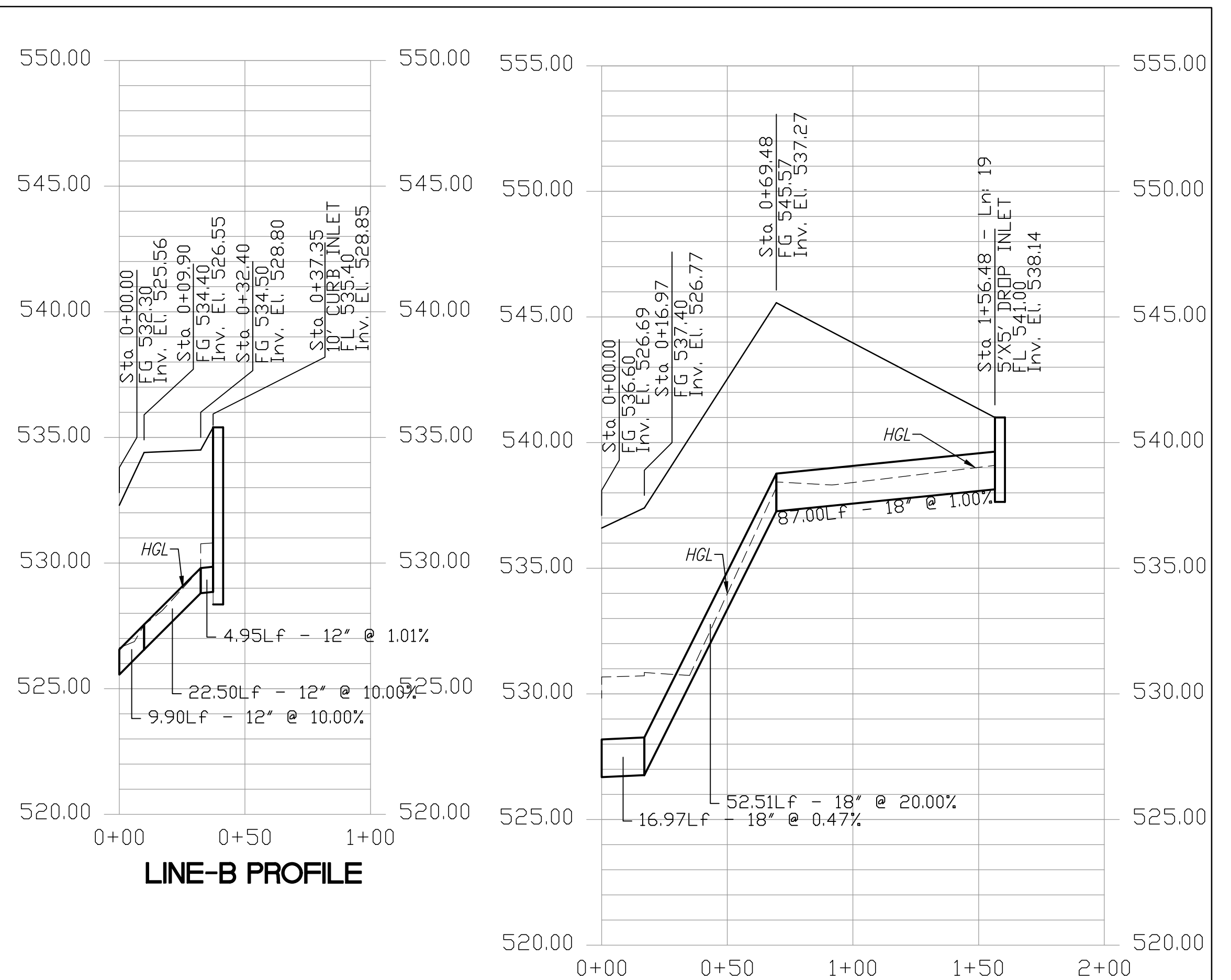
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STORMDRAIN PLAN
NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO
JN 1120
sheet
11
of
23

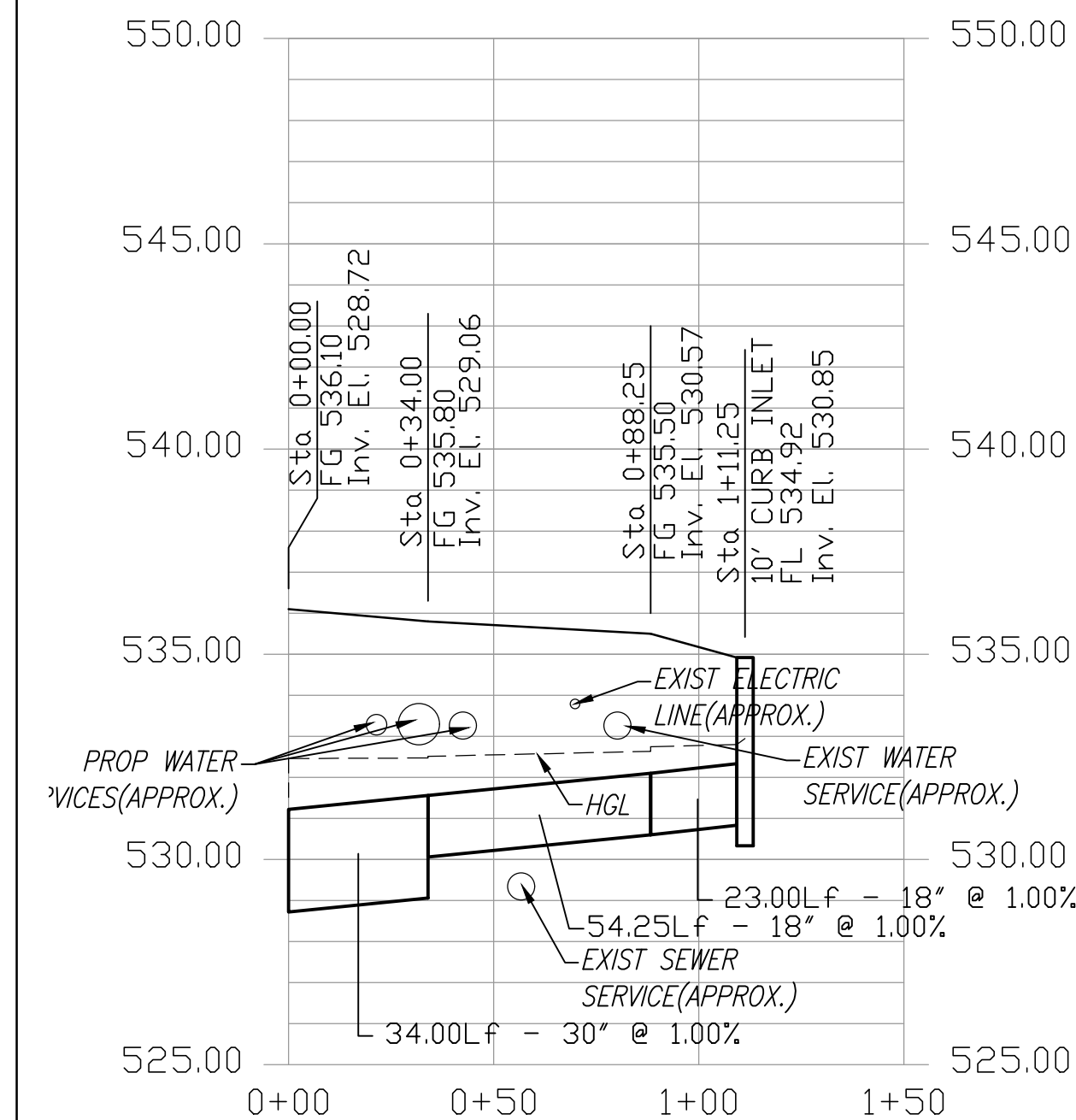


LINE-A PROFILE

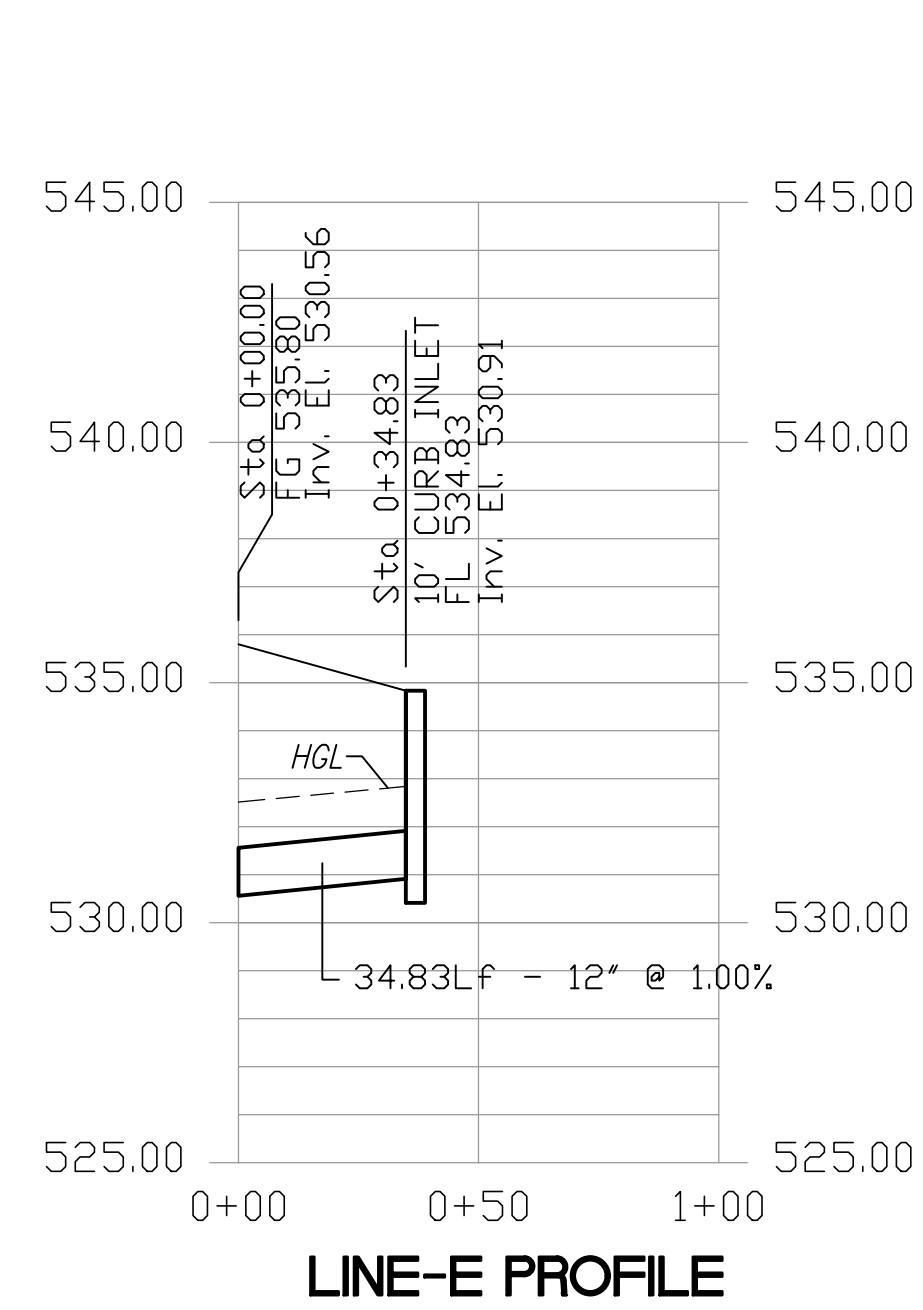


LINE-B PROFILE

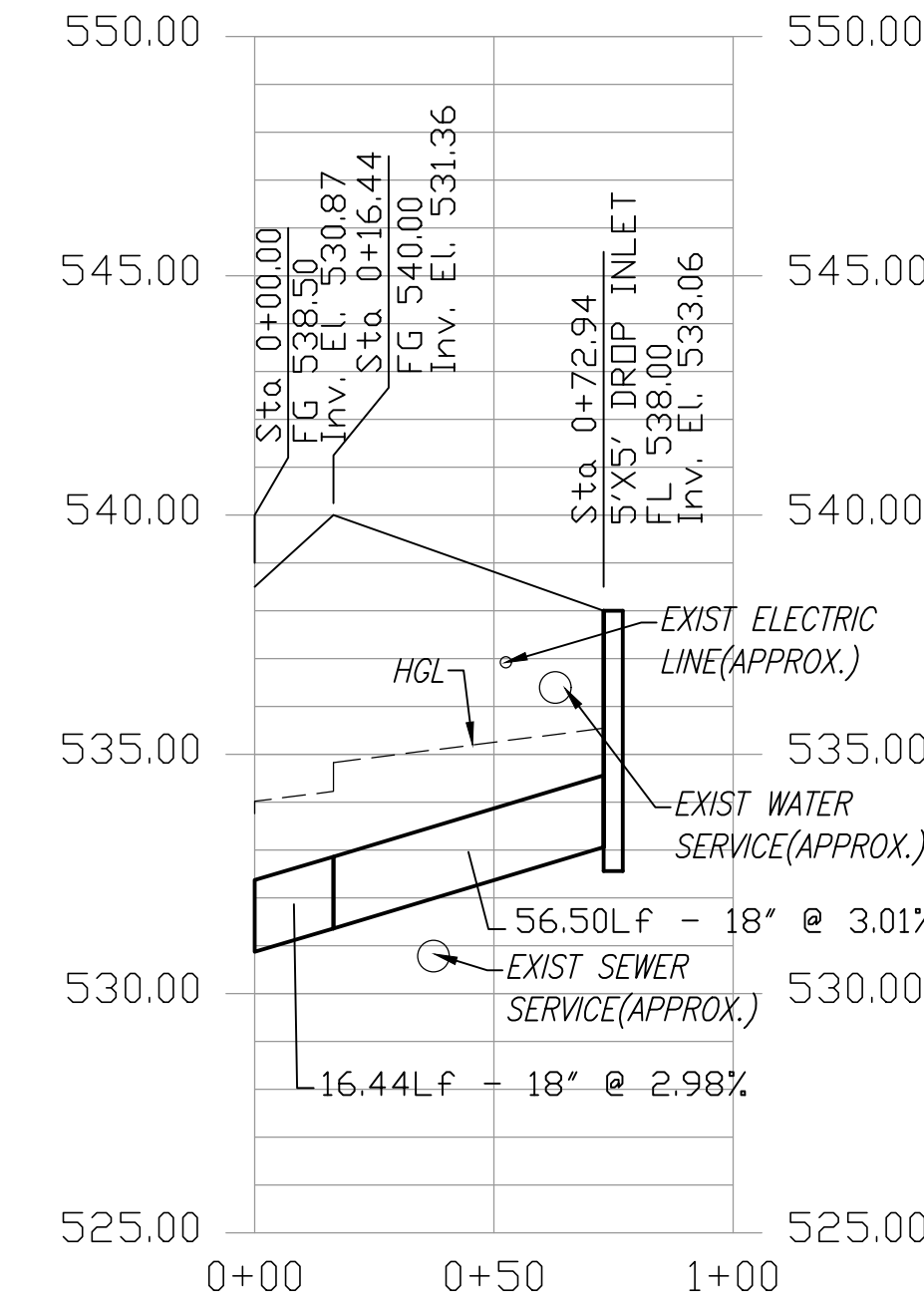
LINE-C PROFILE



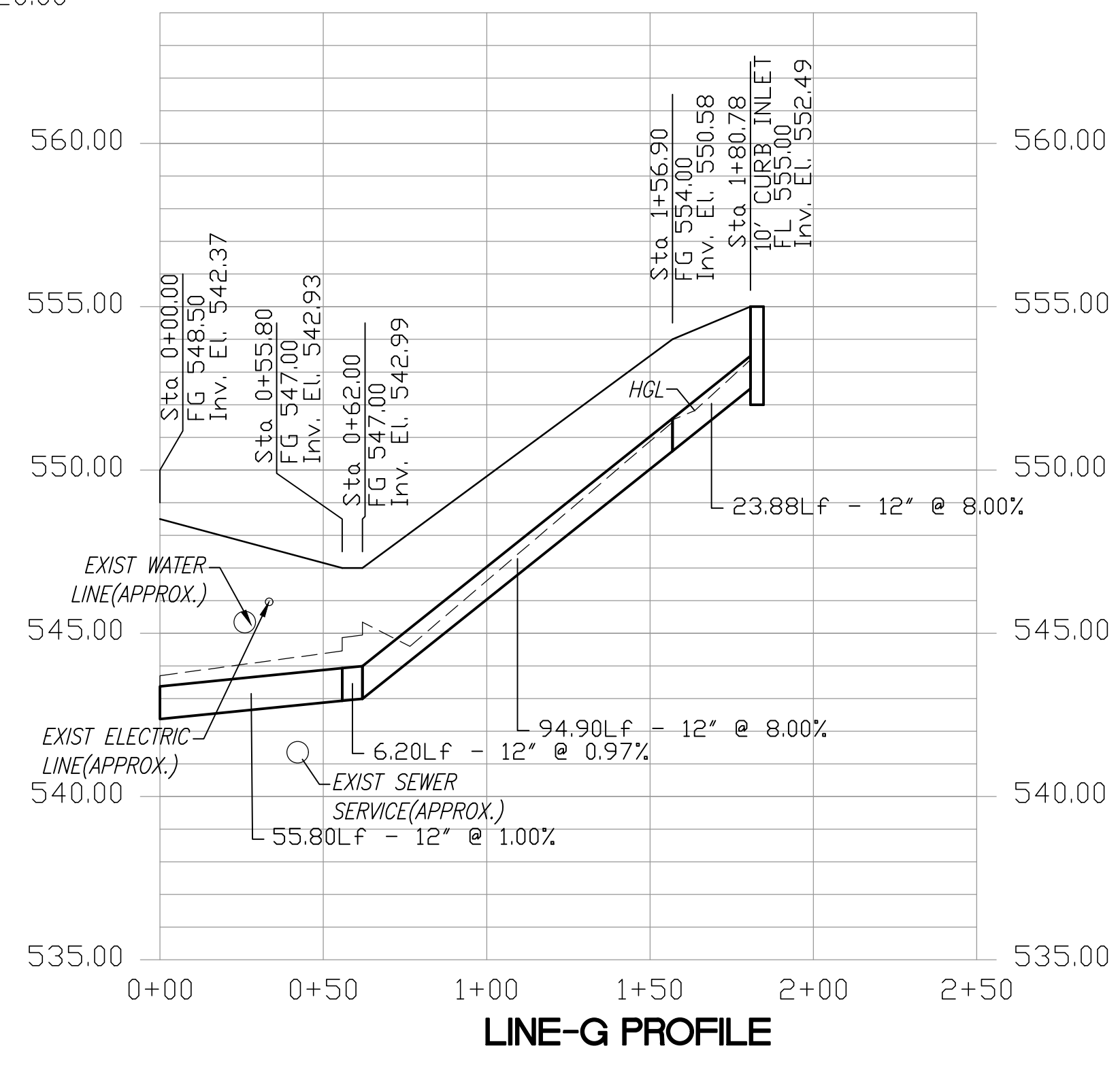
LINE-D PROFILE



LINE-E PROFILE



LINE-F PROFILE



LINE-G PROFILE

NOTE:
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HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

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STORM DRAIN PROFILES
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JN 1120
sheet
12
of
23

PIPE FLOW COMPUTATIONS

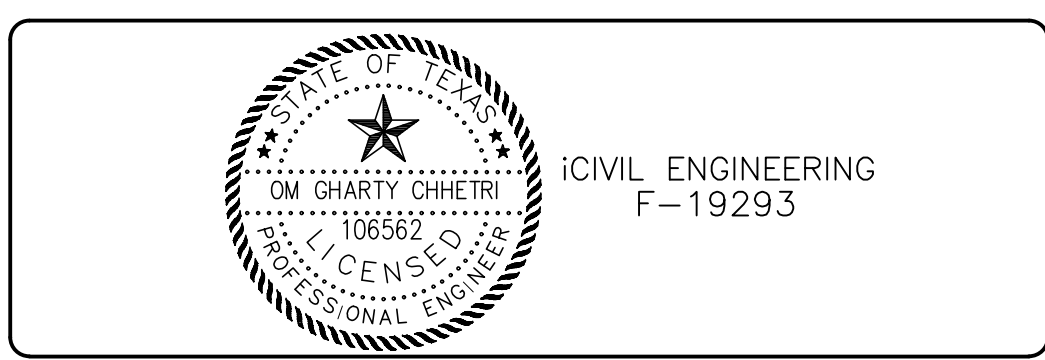
Line ID	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	Rnfallnt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
A-1	28	0	4.17	0	0	3.75	0	11.5	11.2	42.05	42.05	120.51	8.93	30	7.36	522	524.06	524.5	526.23	0	532.3
A-2	32	0	3.88	0	0	3.49	0	11.4	11.2	39.23	39.23	62.83	8.43	30	2	524.06	524.7	526.58	526.81	532.3	535.6
A-3	14.32	0	3.88	0	0	3.49	0	11.4	11.2	39.28	39.28	63.22	8.55	30	2.02	524.7	524.99	527.04	527.1	535.6	536.3
A-4	35	0	3.88	0	0	3.49	0	11.3	11.3	39.39	39.39	62.83	8.58	30	2	524.99	525.69	527.33	527.8	536.3	536.6
A-5	151.63	0	3.31	0	0	2.98	0	11	11.4	34.08	34.08	62.81	7.55	30	2	525.69	528.72	528.28	530.7	536.6	536.1
A-6	20.51	0	2.45	0	0	2.21	0	10.9	11.5	25.27	25.27	34.64	9.26	24	2	529.22	529.63	530.73	531.4	536.1	536.5
A-7	37	0	2.45	0	0	2.21	0	10.8	11.5	25.34	25.34	34.65	8.41	24	2	529.63	530.37	531.54	532.14	536.5	538.5
A-8	91.67	0	1.25	0	0	1.13	0	10.6	11.6	13.04	13.04	39.41	7.58	18	12	530.87	541.87	532.45	543.22	538.5	548.5
A-9	35	0	0.83	0	0	0.75	0	10.5	11.6	8.7	8.7	19.7	5.48	18	3	541.87	542.92	543.78	544.06	548.5	547.5
A-10	54.09	0	0.83	0	0	0.75	0	10.3	11.7	8.76	8.76	19.69	5.68	18	2.99	542.92	544.54	544.24	545.68	547.5	551
A-11	94	0	0.83	0	0	0.75	0	10	11.9	8.87	8.87	22.81	5.73	18	4.02	544.54	548.32	545.86	549.47	551	553.3
A-12	4	0.83	0.83	0.9	0.75	0.75	10	10	11.9	8.87	8.87	23.45	5.71	18	4.25	548.32	548.49	549.66	549.64	553.3	553.21
B-1	9.9	0	0.29	0	0	0.26	0	10.1	11.8	3.09	3.09	12.2	4.39	12	10	525.56	526.55	527.33	527.3	532.3	534.4
B-2	22	0	0.29	0	0	0.26	10	10	11.9	3.1	3.1	12.34	4.41	12	10.23	526.55	528.8	527.7	529.55	534.4	534.5
B-3	4.95	0.29	0.29	0.9	0.26	0.26	10	10	11.9	3.1	3.1	3.88	4.55	12	1.01	528.8	528.85	529.68	529.6	534.5	535.4
C-1	16.97	0	0.57	0	0	0.51	0	10.7	11.6	5.93	5.93	7.81	3.36	18	0.47	526.69	526.77	528.86	528.91	536.6	537.4
C-2	53	0	0.57	0	0	0.51	0	10.4	11.7	5.99	5.99	50.64	4.25	18	19.81	526.77	537.27	529.04	538.21	537.4	545.57
C-3	87	0.57	0.57	0.9	0.51	0.51	10	10	11.9	6.09	6.09	11.38	4.64	18	1	537.27	538.14	538.44	539.09	545.57	541
D-1	34	0	0.86	0	0	0.77	0	10.4	11.7	9.04	9.04	44.43	1.84	30	1	528.72	529.06	531.69	531.7	536.1	535.8
D-2	54.25	0	0.51	0	0	0.46	0	10.1	11.8	5.42	5.42	11.35	3.3	18	1	530.06	530.6	531.74	531.82	535.8	535.5
D-3	23	0.51	0.51	0.9	0.46	0.46	10	10	11.9	5.45	5.45	11.38	4.08	18	1	530.6	530.83	531.96	531.73	535.5	534.92
E-1	34.83	0.35	0.35	0.9	0.32	0.32	10	10	11.9	3.74	3.74	3.87	4.76	12	1	530.56	530.91	531.74	532.07	535.8	534.83
F-1	16.44	0	1.2	0	0	1.08	0	10.1	11.8	12.76	12.76	19.64	7.44	18	2.98	530.87	531.36	532.48	532.7	538.5	540
F-2	56.5	1.2	1.2	0.9	1.08	1.08	10	10	11.9	12.83	12.83	19.73	7.53	18	3.01	531.36	533.06	532.79	534.4	540	538
G-1	56	0	0.42	0	0	0.38	0	10.4	11.7	4.42	4.42	3.86	5.63	12	1	542.37	542.93	543.67	544.4	548.5	547
G-2	6.2	0	0.42	0	0	0.38	0	10.3	11.7	4.43	4.43	3.8	5.64	12	0.97	542.93	542.99	544.8	544.88	547	547
G-3	95	0	0.42	0	0	0.38	0	10.1	11.8	4.48	4.48	10.9	5.9	12	7.99	542.99	550.58	545.26	551.46	547	554
G-4	23.88	0.42	0.42	0.9	0.38	0.38	10	10	11.9	4.49	4.49	10.91	5.96	12	8	550.58	552.49	551.53	553.38	554	555

INLET COMPUTATIONS

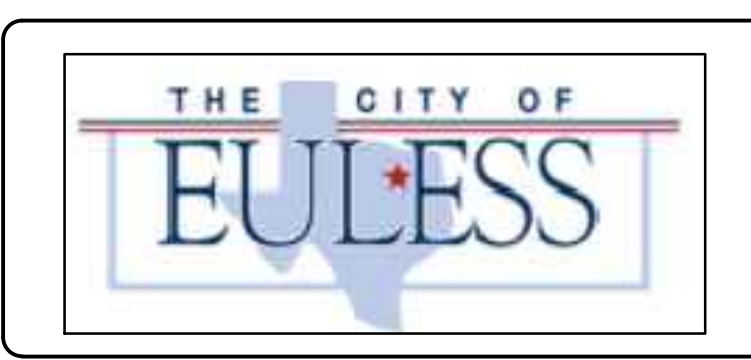
Inlet ID	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GrateArea (sqft)	GrateLength (ft)	GrateWidth (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	BypassLine No.
I-1	0.83	10	11.88	0.9	8.87	8.87	0	Curb	6	10	....	....	....	Sag	2	0.04	0.02	0	0.47	n/a	n/a	0.47	21.57	Sag
I-2	0.29	10	11.88	0.9	3.1	3.1	0	Curb	6	10	....	....	....	Sag	2	0.04	0.02	0	0.25	n/a	n/a	0.25	10.7	Sag
I-3	0.57	10	11.88	0.9	6.09	6.09	0	Dp-Grate	....	....	10	20	0.5	Sag	5	0.02	0.02	....	0.13	n/a	n/a	0.13	18.47	Sag
I-4	0.51	10	11.88	0.9	5.45	5.45	0	Curb	6	10	....	....	....	Sag	2	0.04	0.02	0	0.35	n/a	n/a	0.35	15.59	Sag
I-5	0.35	10	11.88	0.9	3.74	3.74	0	Curb	6	10	....	....	....	Sag	2	0.04	0.02	0	0.28	n/a	n/a	0.28	12.13	Sag
I-6	1.2	10	11.88	0.9	12.83	12.83	0	Dp-Grate	10	20	0.5	Sag	5	0.02	0.02	0.22	n/a	n/a	0.22	27.14	Sag
I-7	0.42	10	11.88	0.9	4.49	4.49	0	Curb	6	10	Sag	2	0.04	0.02	0	0.31	n/a	n/a	0.31	13.7	Sag

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DRAINAGE CALCULATIONS
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PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

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JN 1120
sheet
13
of
23

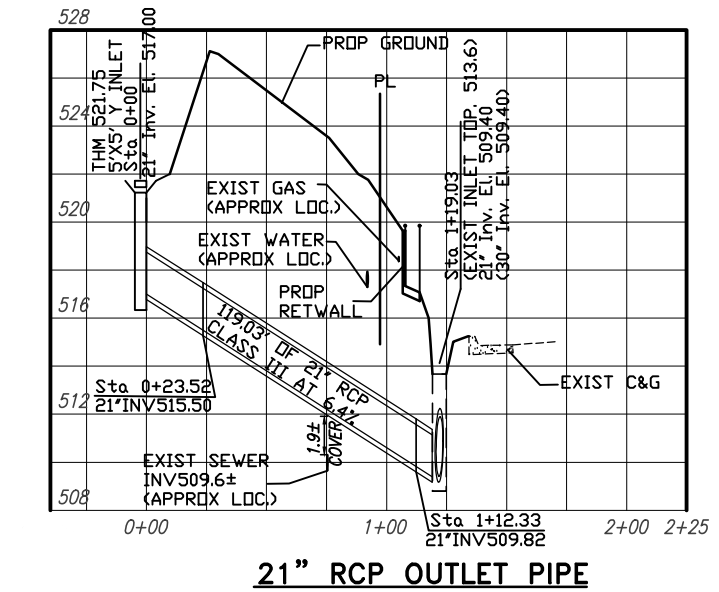
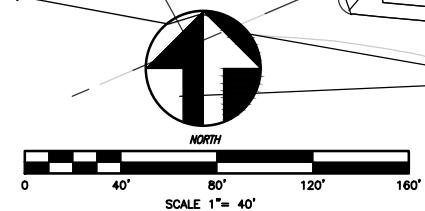
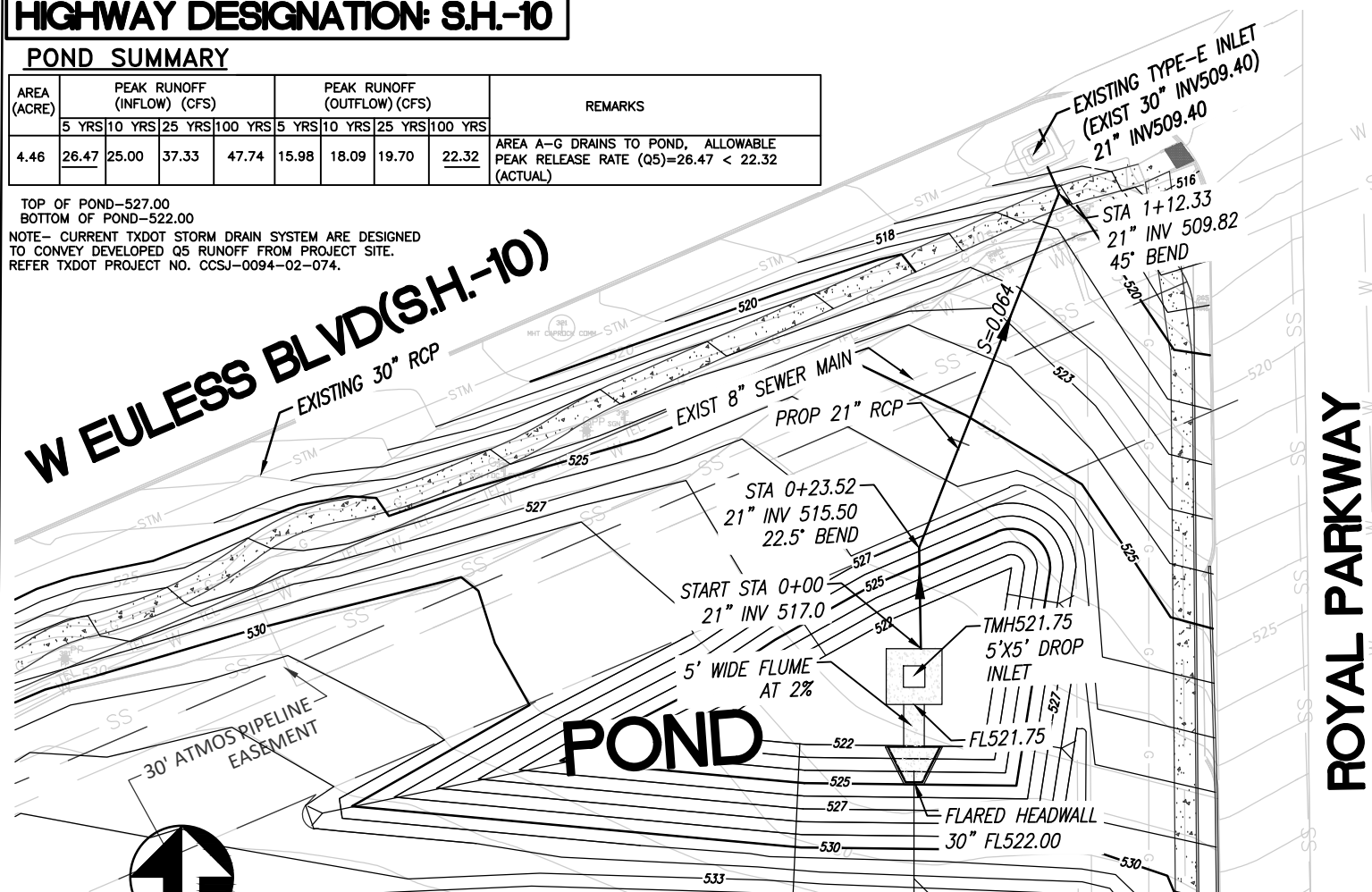
HIGHWAY DESIGNATION: S.H.-10

POND SUMMARY

AREA (ACRE)	PEAK RUNOFF (INFLOW) (CFS)				PEAK RUNOFF (OUTFLOW) (CFS)				REMARKS
	5 YRS	10 YRS	25 YRS	100 YRS	5 YRS	10 YRS	25 YRS	100 YRS	
4.46	26.47	25.00	37.33	47.74	15.98	18.09	19.70	22.32	AREA A-G DRAINS TO POND, ALLOWABLE PEAK RELEASE RATE (Q5)=26.47 < 22.32 (ACTUAL)

TOP OF POND-527.00
 BOTTOM OF POND-522.00
 NOTE- CURRENT TXDOT STORM DRAIN SYSTEM ARE DESIGNED TO CONVEY DEVELOPED Q5 RUNOFF FROM PROJECT SITE. REFER TXDOT PROJECT NO. CCSJ-0094-02-074.

W EULESS BLVD(S.H.-10)



Pond Report

Hydraulics Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Thursday, 05 / 6 / 2021

Pond No. 1 - NCSC POND
Pond Data
 Pond storage is based on user-defined values.

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	522.00	n/a	0	0
1.00	523.00	n/a	953	953
2.00	524.00	n/a	2,259	3,212
3.00	525.00	n/a	3,016	6,228
4.00	526.00	n/a	3,876	10,104
5.00	527.00	n/a	4,836	14,940

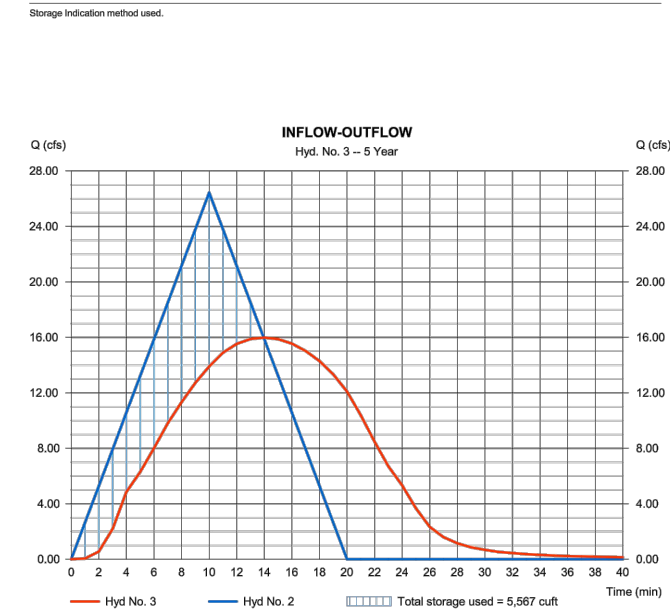
Culvert / Orifice Structures				Weir Structures			
	[A]	[B]	[C] [Pr/Rsr]		[A]	[B]	[C] [D]
Rise (in)	= 21.00	0.00	0.00	Crest Len (ft)	= 0.00	0.00	0.00
Span (in)	= 21.00	0.00	0.00	Crest El. (ft)	= 0.00	0.00	0.00
No. Barrels	= 1	0	0	Weir Coeff.	= 3.33	3.33	3.33
Invert El. (ft)	= 522.00	0.00	0.00	Weir Type	=		
Length (ft)	= 119.00	0.00	0.00	Multi-Stage	= No	No	No
Slope (%)	= 6.40	0.00	n/a	Exfil. (in/hr)	= 0.000	(if Wet area)	
N-Value	= .013	.013	n/a	TW Elev. (ft)	= 0.00		
Orifice Coeff.	= 0.60	0.60	0.60				
Multi-Stage	= n/a	No	No				

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	Pr/Rsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	522.00	0.00	---	---	---	---	---	---	---	---	---	0.000
1.00	953	523.00	4.84 ic	---	---	---	---	---	---	---	---	---	4.843
2.00	3,212	524.00	12.28 ic	---	---	---	---	---	---	---	---	---	12.288
3.00	6,228	525.00	18.88 ic	---	---	---	---	---	---	---	---	---	18.888
4.00	10,104	526.00	20.47 ic	---	---	---	---	---	---	---	---	---	20.477
5.00	14,940	527.00	23.52 ic	---	---	---	---	---	---	---	---	---	23.522

Hydrograph Report

Hydraulics Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Monday, 11 / 23 / 2020

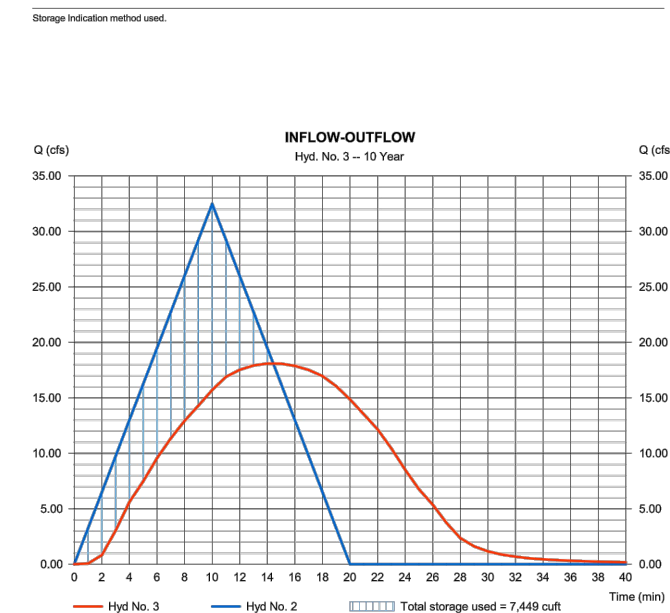
Hyd. No. 3
 INFLOW-OUTFLOW
 Hydrograph type = Reservoir
 Storm frequency = 5 yrs
 Time interval = 1 min
 Inflow hyd. No. = 2 - POST DEV HYDROGRAPH
 Reservoir name = NCSC POND
 Peak discharge = 15.98 cfs
 Time to peak = 14 min
 Hyd. volume = 15,860 cuft
 Max. Elevation = 524.78 ft
 Max. Storage = 5,567 cuft



Hydrograph Report

Hydraulics Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 12 / 15 / 2020

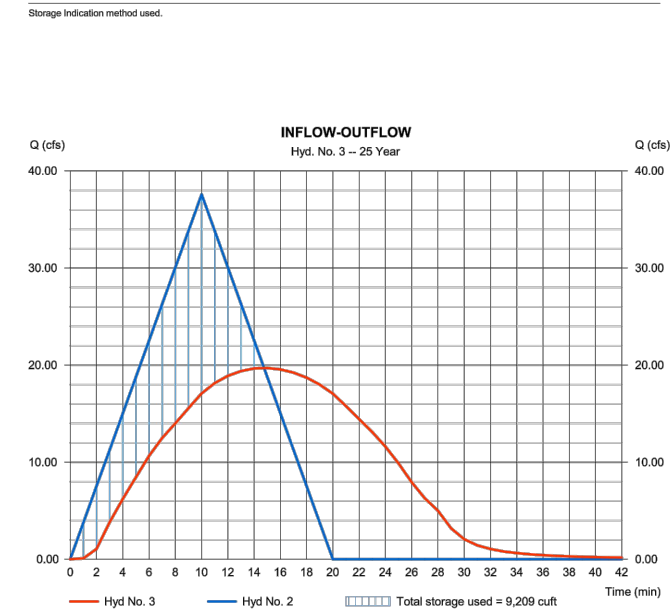
Hyd. No. 3
 INFLOW-OUTFLOW
 Hydrograph type = Reservoir
 Storm frequency = 10 yrs
 Time interval = 1 min
 Inflow hyd. No. = 2 - POST DEV HYDROGRAPH
 Reservoir name = NCSC POND
 Peak discharge = 18.09 cfs
 Time to peak = 14 min
 Hyd. volume = 19,487 cuft
 Max. Elevation = 525.32 ft
 Max. Storage = 7,449 cuft



Hydrograph Report

Hydraulics Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Tuesday, 12 / 15 / 2020

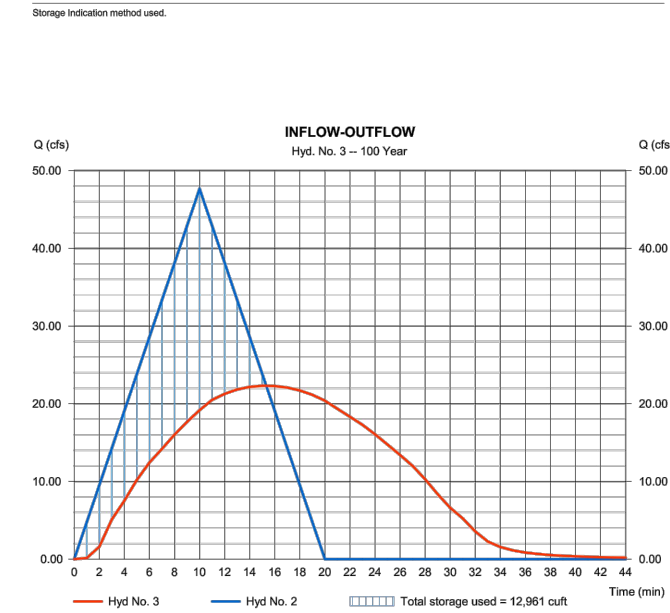
Hyd. No. 3
 INFLOW-OUTFLOW
 Hydrograph type = Reservoir
 Storm frequency = 25 yrs
 Time interval = 1 min
 Inflow hyd. No. = 2 - POST DEV HYDROGRAPH
 Reservoir name = NCSC POND
 Peak discharge = 19.70 cfs
 Time to peak = 15 min
 Hyd. volume = 22,546 cuft
 Max. Elevation = 525.77 ft
 Max. Storage = 9,209 cuft



Hydrograph Report

Hydraulics Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020 Monday, 11 / 23 / 2020

Hyd. No. 3
 INFLOW-OUTFLOW
 Hydrograph type = Reservoir
 Storm frequency = 100 yrs
 Time interval = 1 min
 Inflow hyd. No. = 2 - POST DEV HYDROGRAPH
 Reservoir name = NCSC POND
 Peak discharge = 22.32 cfs
 Time to peak = 15 min
 Hyd. volume = 28,599 cuft
 Max. Elevation = 526.59 ft
 Max. Storage = 12,961 cuft



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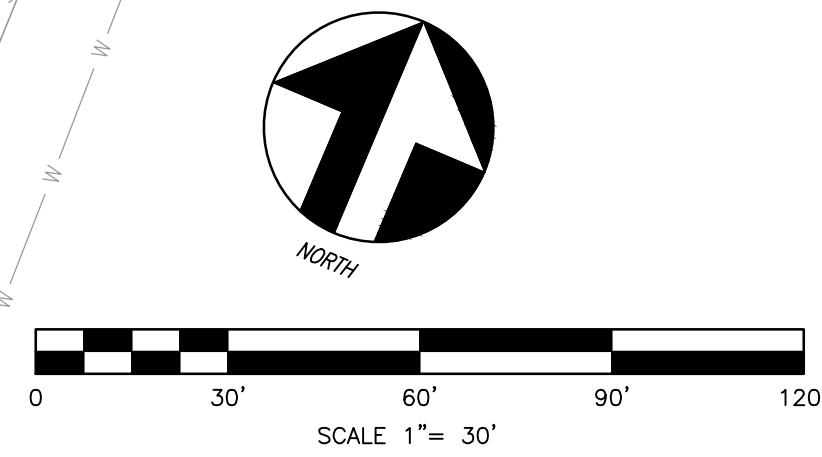
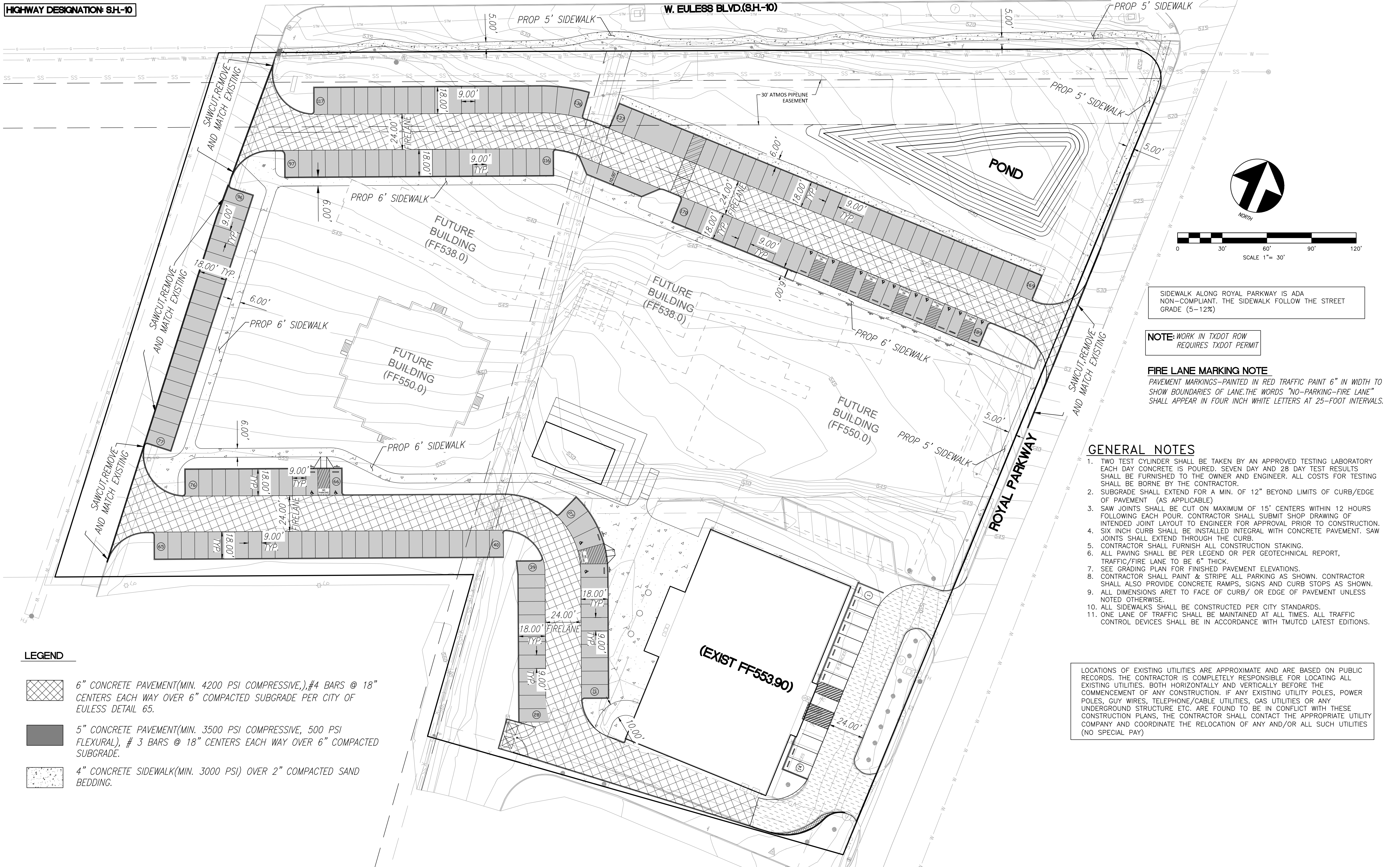
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 vert N/A
 date
 MAY 2021



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POND CALCULATIONS
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 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JN 1120
 sheet
 14
 of
 23



SIDEWALK ALONG ROYAL PARKWAY IS ADA NON-COMPLIANT. THE SIDEWALK FOLLOW THE STREET GRADE (5-12%)

NOTE: WORK IN TXDOT ROW REQUIRES TXDOT PERMIT

FIRE LANE MARKING NOTE
PAVEMENT MARKINGS—PAINTED IN RED TRAFFIC PAINT 6" IN WIDTH TO SHOW BOUNDARIES OF LANE. THE WORDS "NO-PARKING-FIRE LANE" SHALL APPEAR IN FOUR INCH WHITE LETTERS AT 25-FOOT INTERVALS.

- GENERAL NOTES**
1. TWO TEST CYLINDER SHALL BE TAKEN BY AN APPROVED TESTING LABORATORY EACH DAY CONCRETE IS POURED. SEVEN DAY AND 28 DAY TEST RESULTS SHALL BE FURNISHED TO THE OWNER AND ENGINEER. ALL COSTS FOR TESTING SHALL BE BORNE BY THE CONTRACTOR.
 2. SUBGRADE SHALL EXTEND FOR A MIN. OF 12" BEYOND LIMITS OF CURB/EDGE OF PAVEMENT. (AS APPLICABLE)
 3. SAW JOINTS SHALL BE CUT ON MAXIMUM OF 15' CENTERS WITHIN 12 HOURS FOLLOWING EACH POUR. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF INTENDED JOINT LAYOUT TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 4. SIX INCH CURB SHALL BE INSTALLED INTEGRAL WITH CONCRETE PAVEMENT. SAW JOINTS SHALL EXTEND THROUGH THE CURB.
 5. CONTRACTOR SHALL FURNISH ALL CONSTRUCTION STAKING.
 6. ALL PAVING SHALL BE PER LEGEND OR PER GEOTECHNICAL REPORT. TRAFFIC/FIRE LANE TO BE 6" THICK.
 7. SEE GRADING PLAN FOR FINISHED PAVEMENT ELEVATIONS.
 8. CONTRACTOR SHALL PAINT & STRIPE ALL PARKING AS SHOWN. CONTRACTOR SHALL ALSO PROVIDE CONCRETE RAMPS, SIGNS AND CURB STOPS AS SHOWN.
 9. ALL DIMENSIONS ARE TO FACE OF CURB/ OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
 10. ALL SIDEWALKS SHALL BE CONSTRUCTED PER CITY STANDARDS.
 11. ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH TMUTCD LATEST EDITIONS.

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. BOTH HORIZONTALLY AND VERTICALLY BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION. IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE/CABLE UTILITIES, GAS UTILITIES OR ANY UNDERGROUND STRUCTURE ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY AND/OR ALL SUCH UTILITIES (NO SPECIAL PAY)

- LEGEND**
- 6" CONCRETE PAVEMENT(MIN. 4200 PSI COMPRESSIVE), #4 BARS @ 18" CENTERS EACH WAY OVER 6" COMPACTED SUBGRADE PER CITY OF EULESS DETAIL 65.
 - 5" CONCRETE PAVEMENT(MIN. 3500 PSI COMPRESSIVE, 500 PSI FLEXURAL), # 3 BARS @ 18" CENTERS EACH WAY OVER 6" COMPACTED SUBGRADE.
 - 4" CONCRETE SIDEWALK(MIN. 3000 PSI) OVER 2" COMPACTED SAND BEDDING.

no.	revision	by	date

CIVIL ENGINEERING
202 REPUBLIC LN
EULESS, TX 76040
PH: (972) 523-5493

TBPE: F-19293

CIVIL ENGINEERING
F-19293

scale
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vert
N/A
date
MAY 2021



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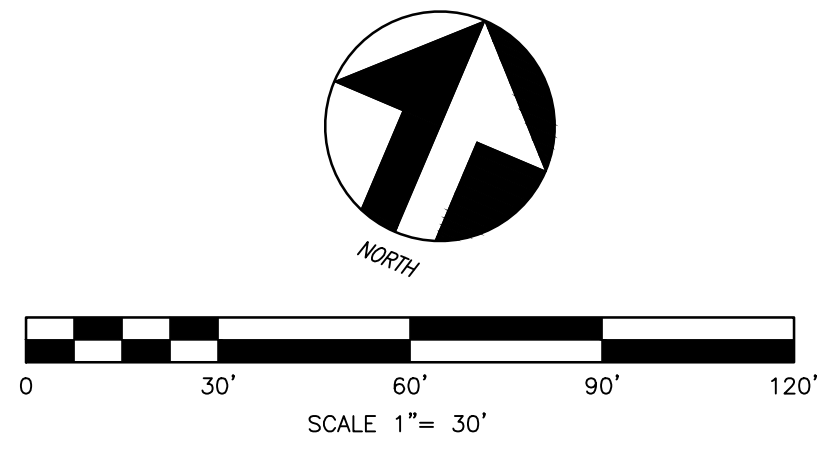
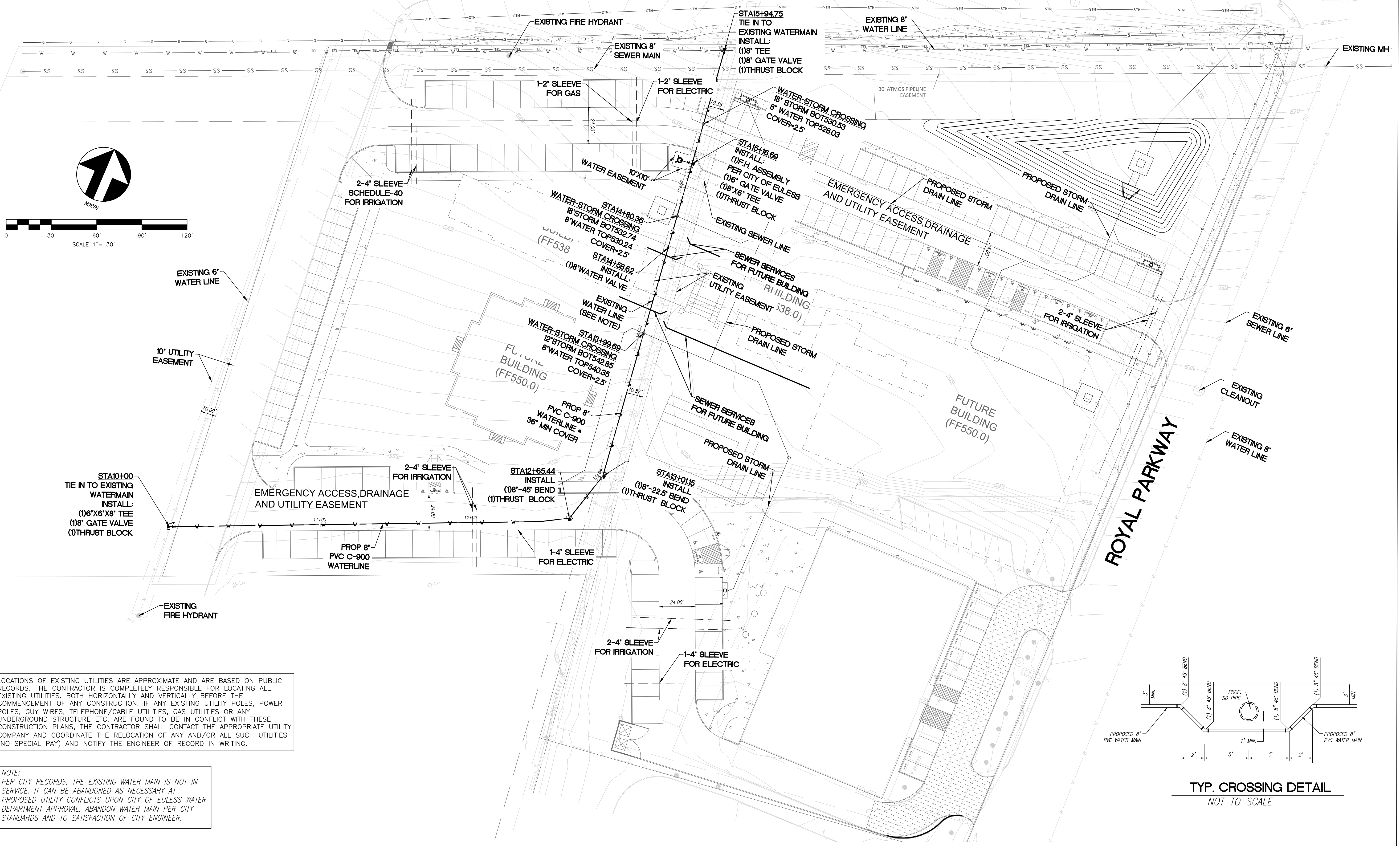
PAVING PLAN

NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I

1212 ROYAL PARKWAY, EULESS TEXAS 76040

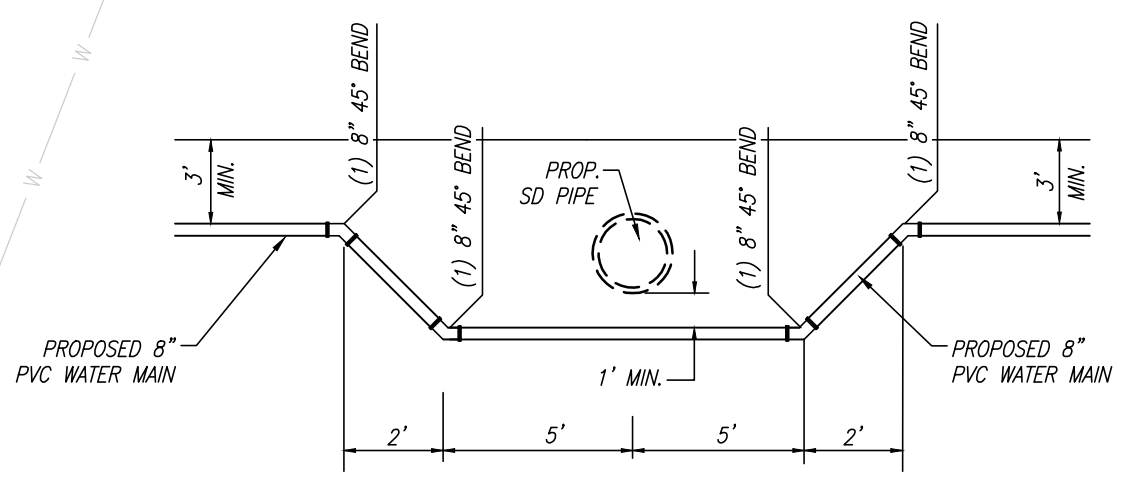
PROJECT NO.
JUN 1120

sheet
15
of
23



LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION. IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE/CABLE UTILITIES, GAS UTILITIES OR ANY UNDERGROUND STRUCTURE ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY AND/OR ALL SUCH UTILITIES (NO SPECIAL PAY) AND NOTIFY THE ENGINEER OF RECORD IN WRITING.

NOTE:
PER CITY RECORDS, THE EXISTING WATER MAIN IS NOT IN SERVICE. IT CAN BE ABANDONED AS NECESSARY AT PROPOSED UTILITY CONFLICTS UPON CITY OF EULESS WATER DEPARTMENT APPROVAL. ABANDON WATER MAIN PER CITY STANDARDS AND TO SATISFACTION OF CITY ENGINEER.



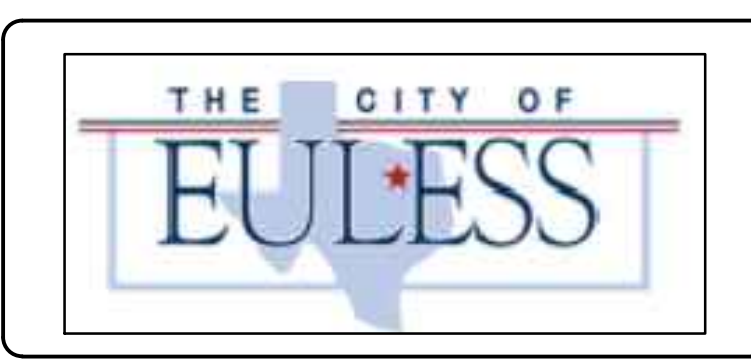
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202 REPUBLIC LN
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PH: (972) 523-5493
TBPE: F-19293

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F-19293

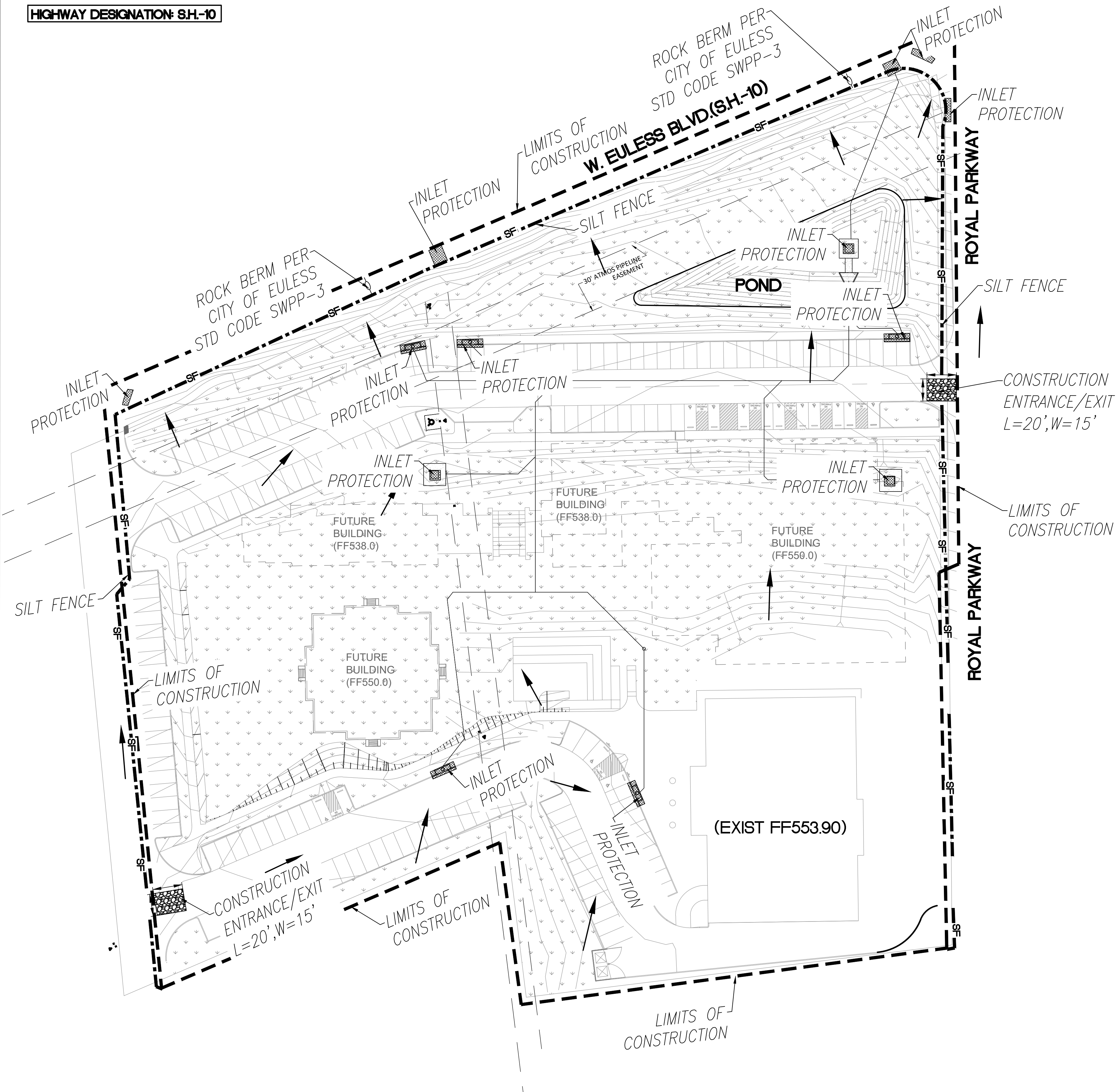
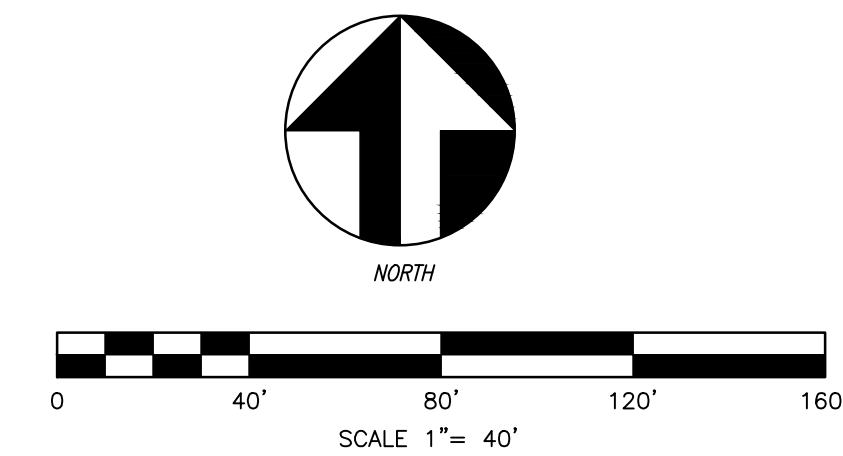
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date
MAY 2021



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WATER AND SEWER PLAN
NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
JN 1120
sheet
16
of
23



LEGEND

- SILT FENCE OR APPROVED EQUAL/LIMIT OF CONSTRUCTION
- DRAINAGE FLOW DIRECTION
- CONSTRUCTION ENTRANCE/EXIT
- SODDING

PHASE DESCRIPTION

- 1 INSTALL INITIAL BMPs
- 2 GRADING & POND
- 3 UNDERGROUND UTILITY INSTALLATION
- 4 PAVING OPERATIONS
- 5 ESTABLISH PERMANENT GROUND COVER
- 6 REMOVE TEMPORARY BMPs

EROSION AND SEDIMENT CONTROL

1. SOIL STABILIZATION PRACTISES (T-TEMPORARY P-PERMANENT)

- P BUFFER ZONE
- P PLANTING
- P SODDING
- P RIPRAP AT OUTLET

2. STRUCTURAL PRACTISES

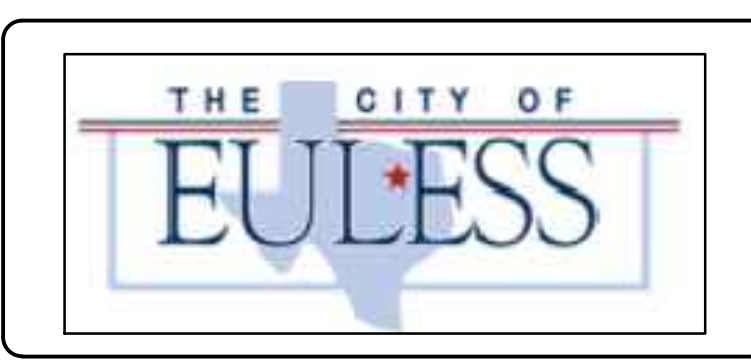
- I SILT FENCE
- I ROCK FILTER DAMS
- P CURB & GUTTER
- P INLETS AND PIPES
- P PAVED FLUMES
- I STORM INLET SEDIMENT TRAP
- P PIPE SLOPE DRAINS

no.	revision	by	date

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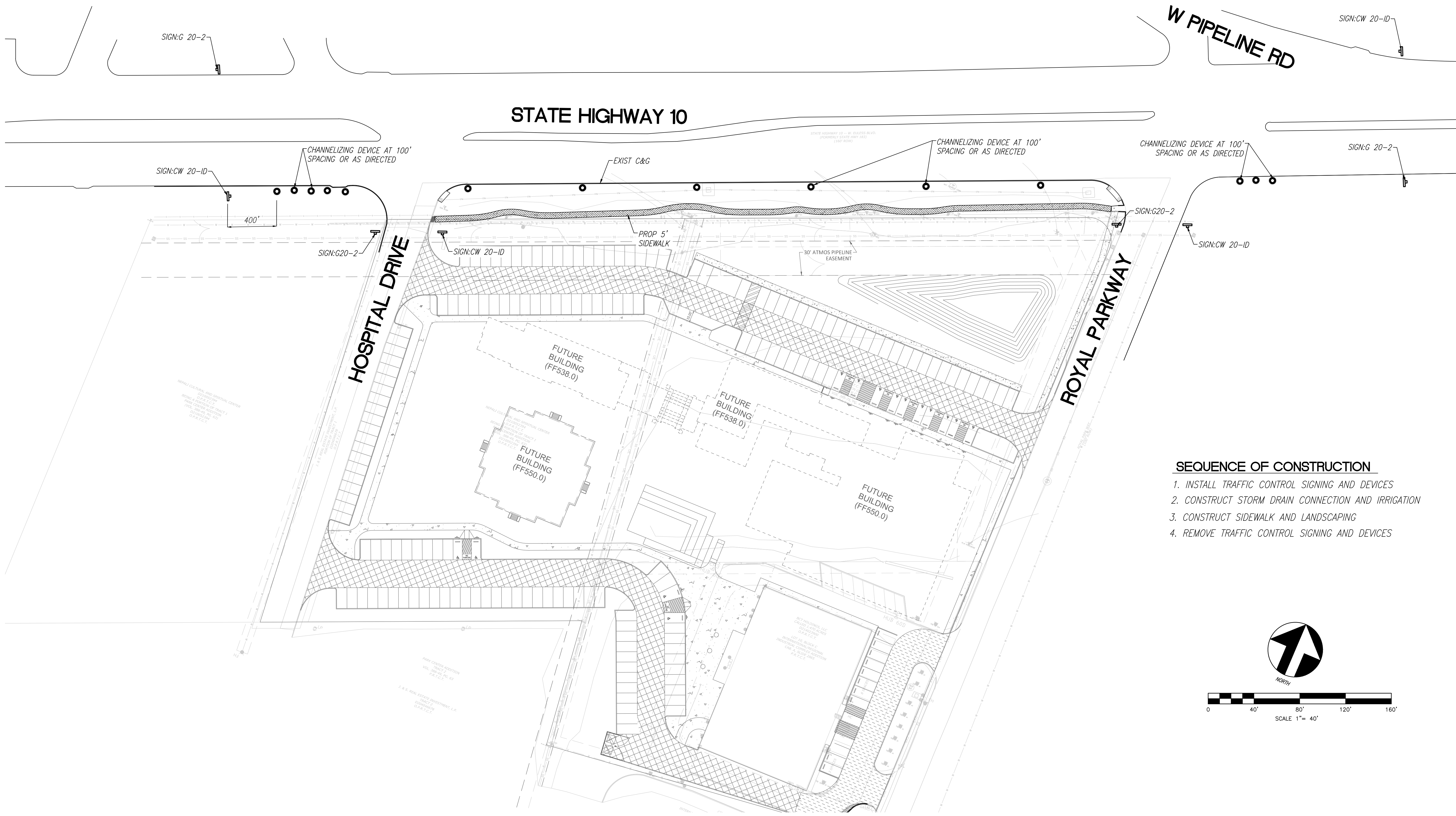
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 date
 MAY 2021



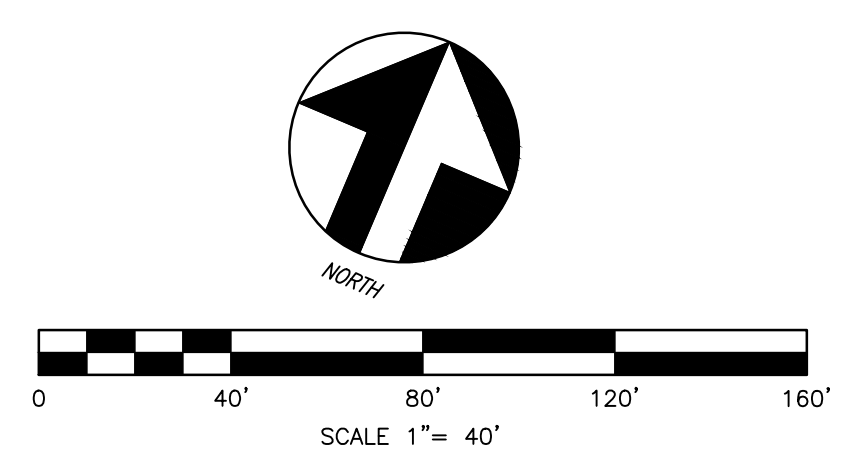
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EROSION CONTROL PLAN
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
 JN 1120
 sheet
17
 of
 23



- SEQUENCE OF CONSTRUCTION**
1. INSTALL TRAFFIC CONTROL SIGNING AND DEVICES
 2. CONSTRUCT STORM DRAIN CONNECTION AND IRRIGATION
 3. CONSTRUCT SIDEWALK AND LANDSCAPING
 4. REMOVE TRAFFIC CONTROL SIGNING AND DEVICES



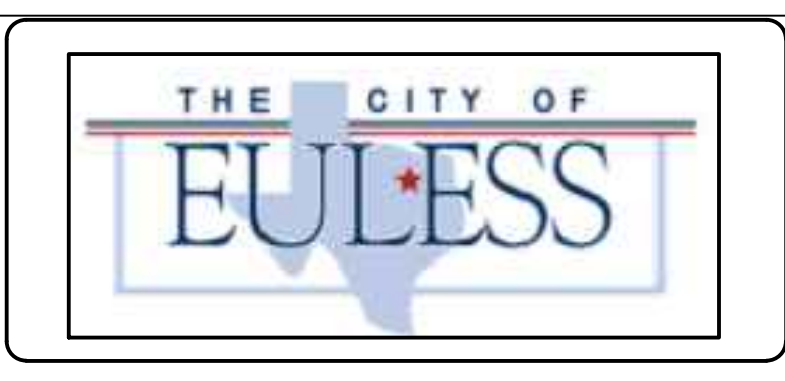
PREPARATION DATE: 6 May 2021

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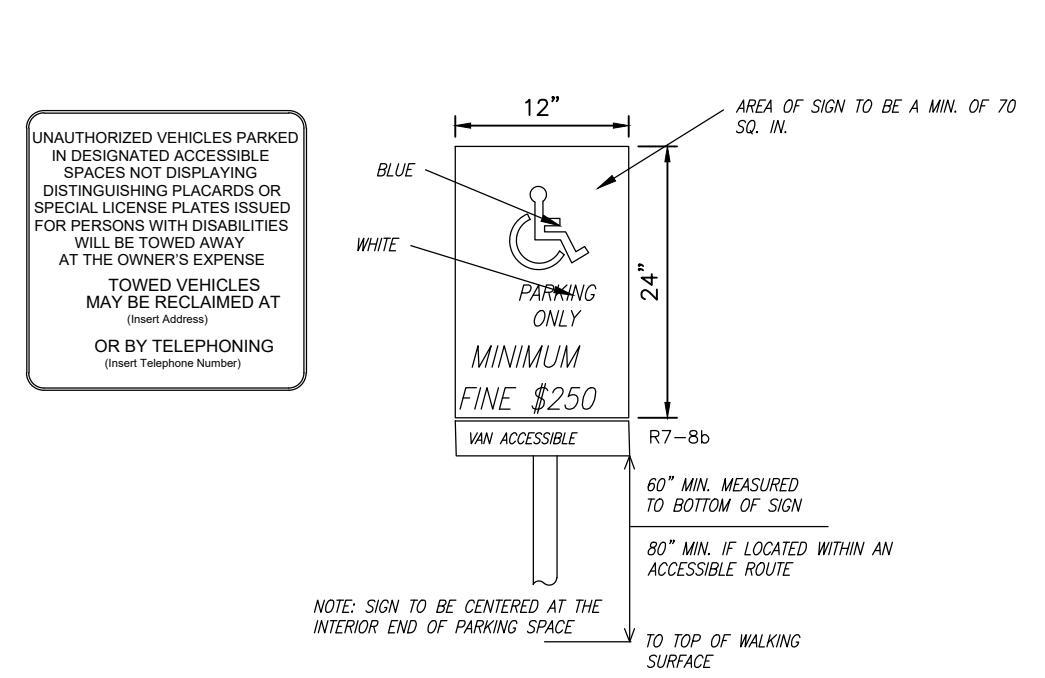
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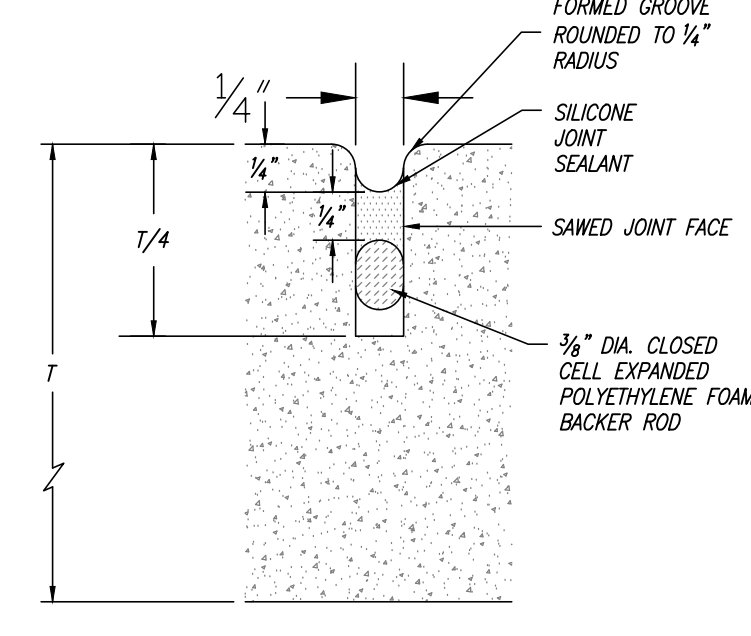
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TRAFFIC CONTROL PLAN
 NEPALI CULTURAL AND SPIRITUAL CENTER
 PHASE-I
 1212 ROYAL PARKWAY, EULESS TEXAS 76040

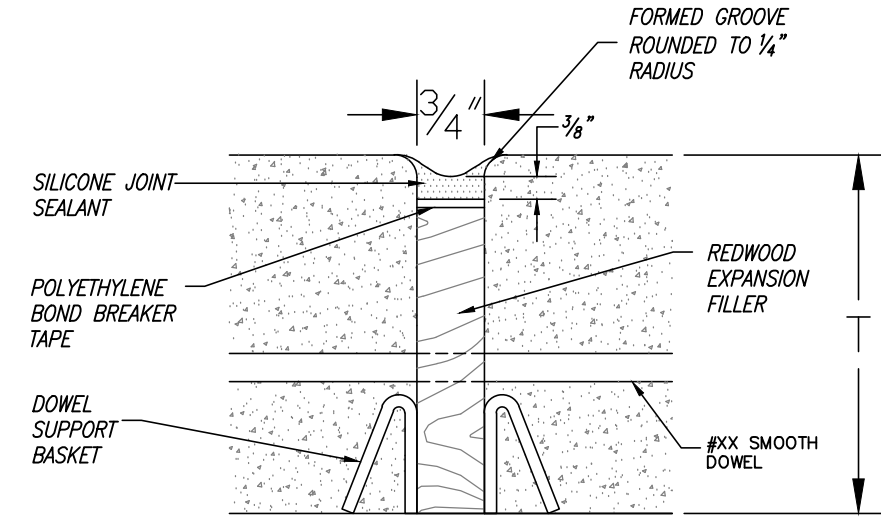
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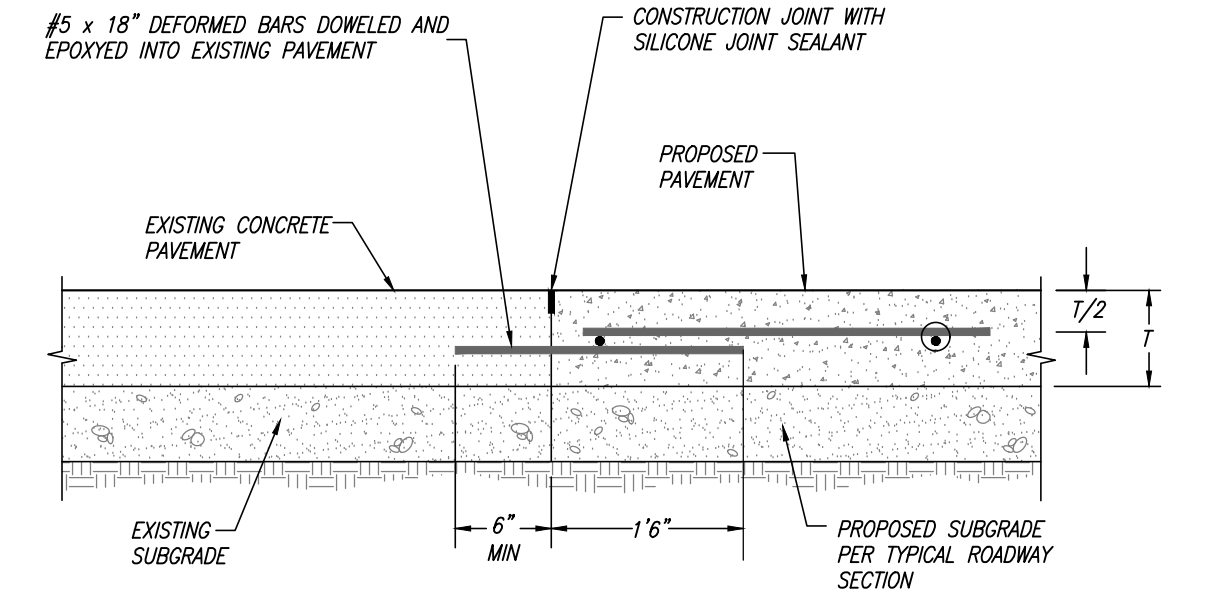
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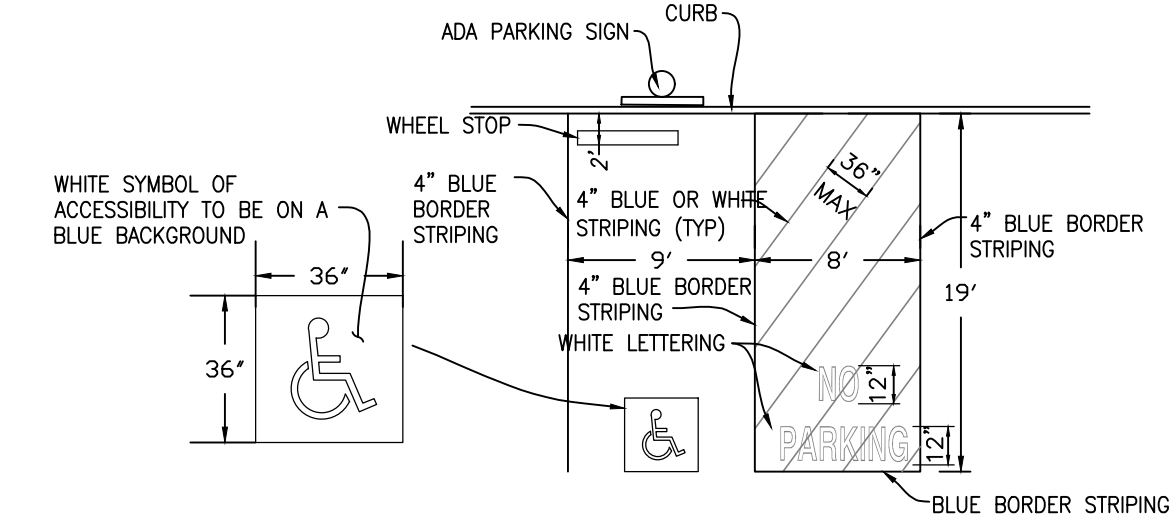
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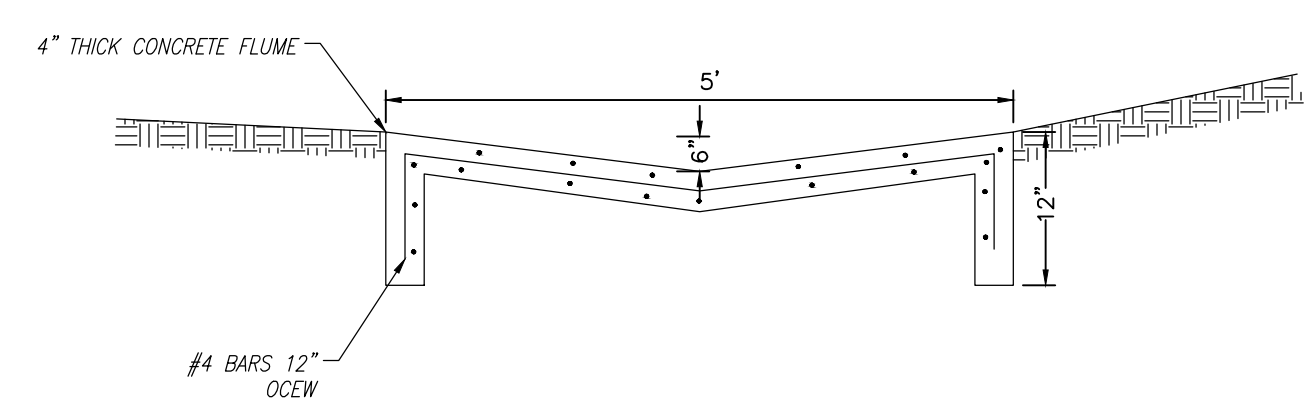
REDWOOD EXPANSION JOINT DETAIL
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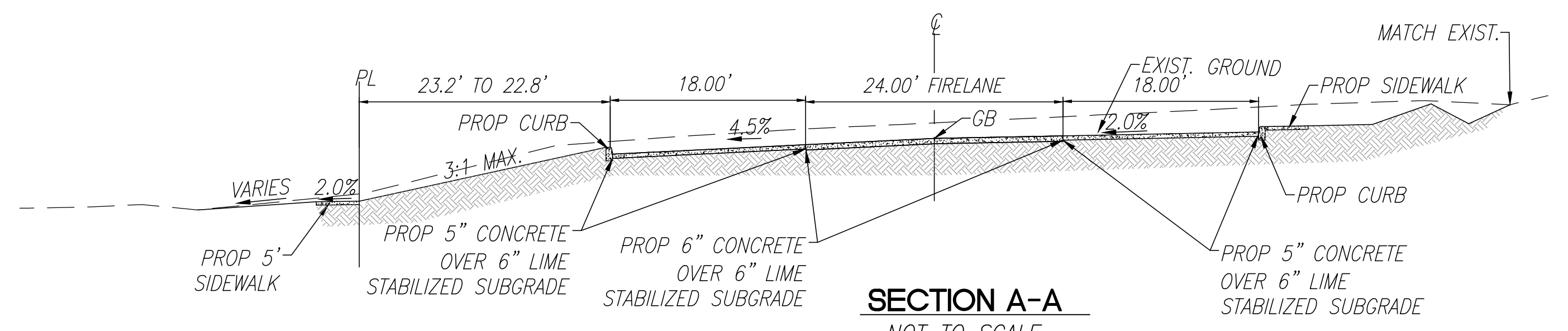
CONSTRUCTION JOINT (BETWEEN EXISTING AND PROPOSED PAVEMENT)
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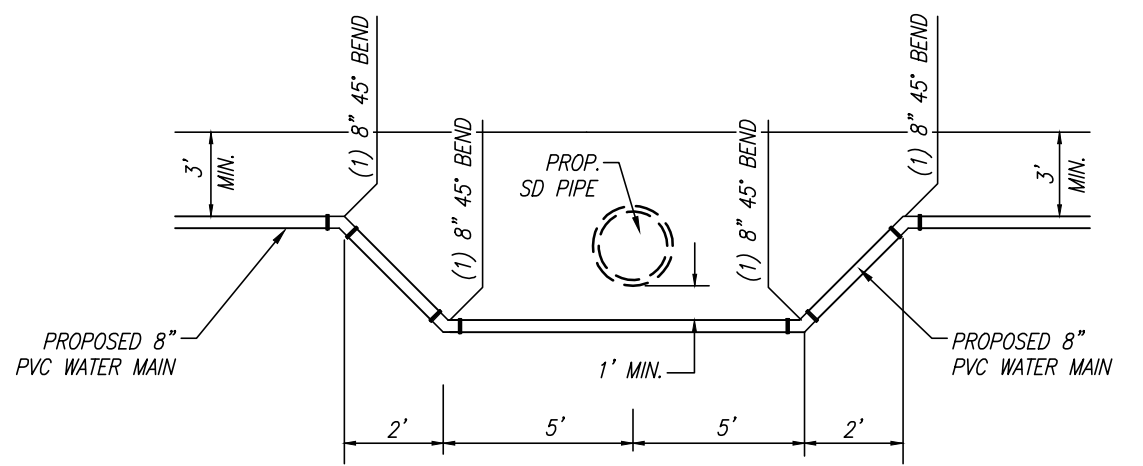
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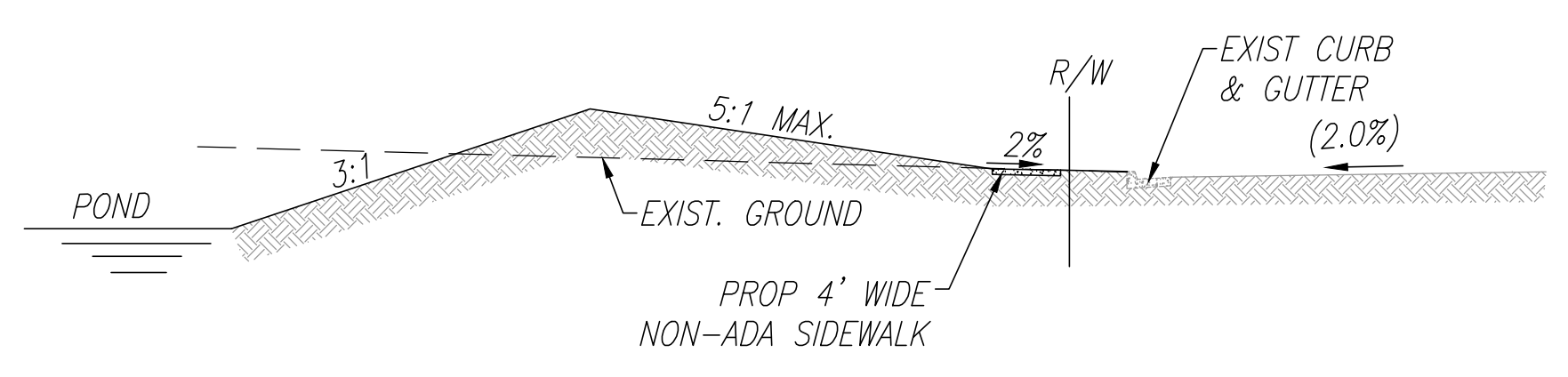
PROPOSED CONCRETE FLUME
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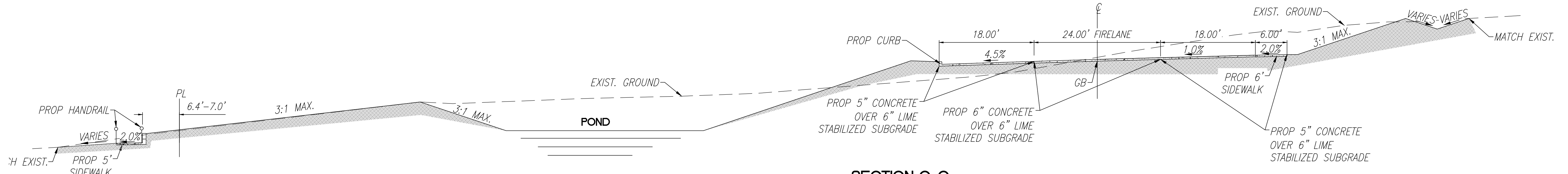
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SECTION B-B
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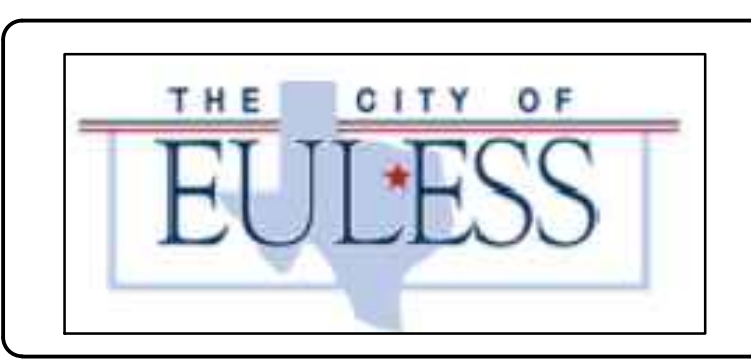
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TBPE: F-19293

STATE OF TEXAS
OM GHARTY CHHETRI
106562
LICENSED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
F-19293

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MAY 2021



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SITE DETAILS & SECTIONS
NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

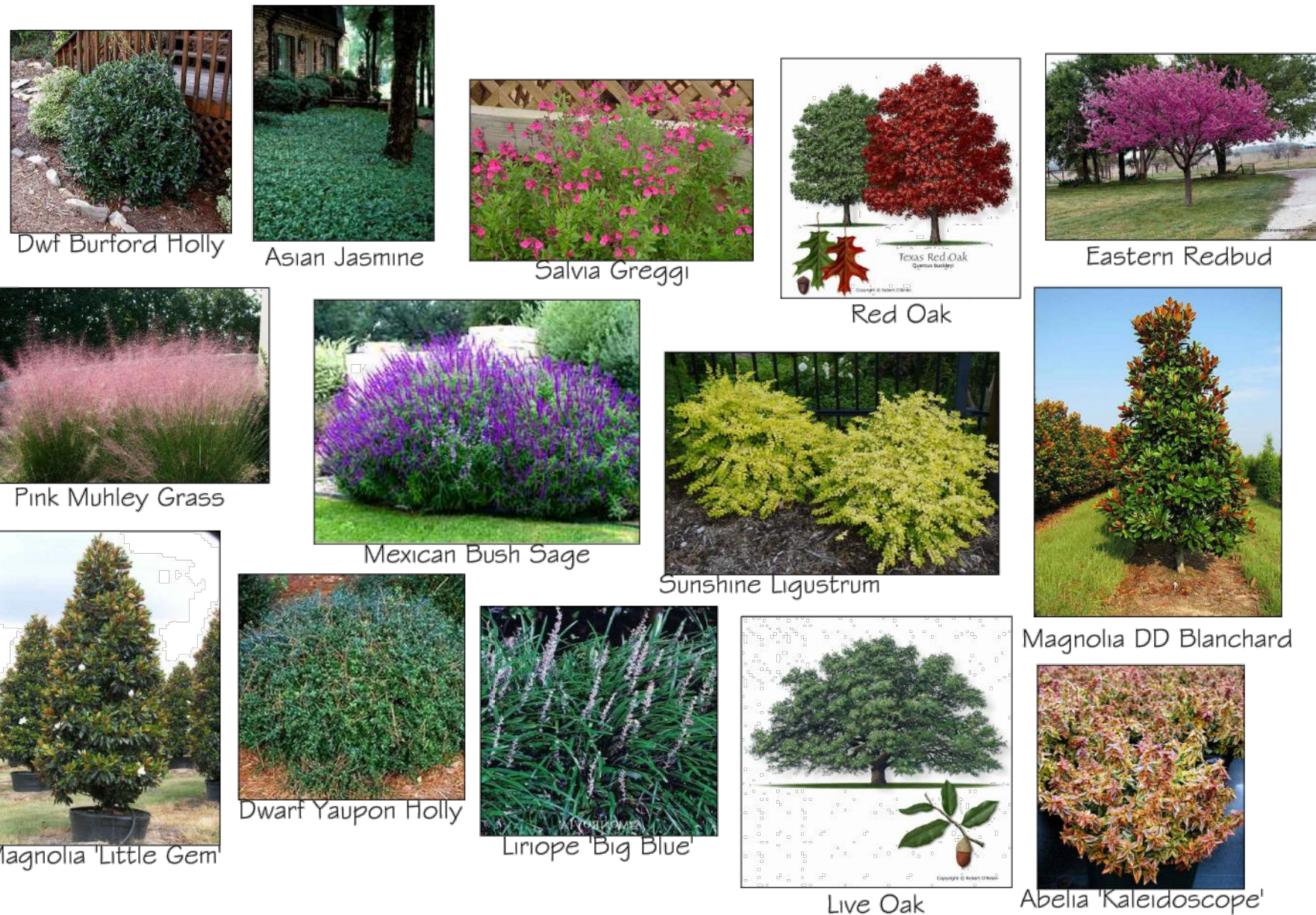
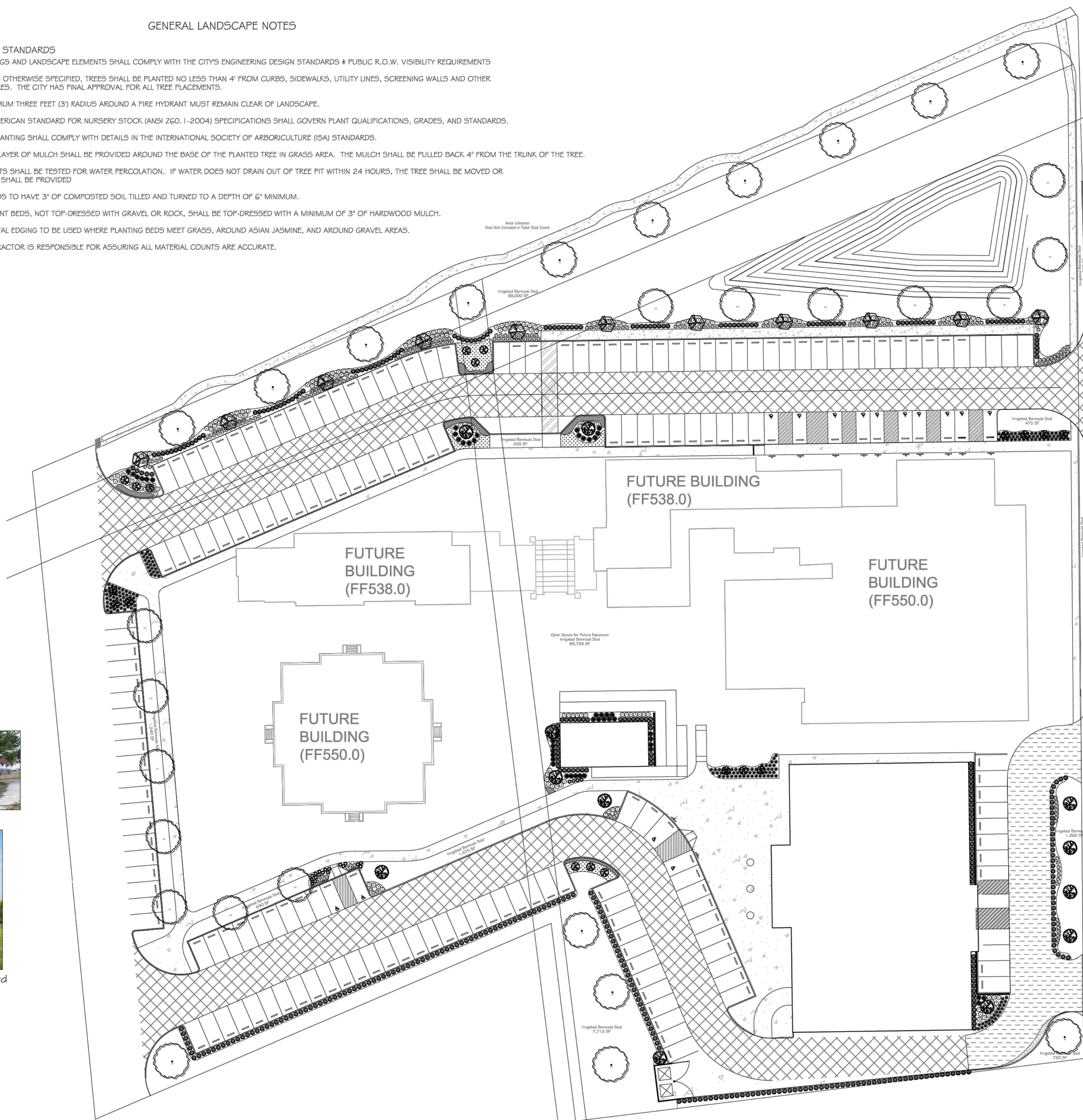
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19
of
23

PLANT LEGEND					
SYMBOL	AMOUNT	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING
	15	LIVE OAK	QUERCUS VIRGINIANA	4" CALIPER 100 GAL	AS SHOWN
	14	SHUMARD RED OAK	QUERCUS SHUMARDI	4" CALIPER 100 GAL	AS SHOWN
	11	MAGNOLIA D.D. BLANCHARD	MAGNOLIA GRANDIFLORA 'DD BLANCHARD'	100 GALLON	AS SHOWN
	12	LITTLE GEM MAGNOLIA	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	100 GALLON	AS SHOWN
	16	EASTERN REDBUD	CERCIS CANADENSIS	45 GALLON	AS SHOWN
	195	DWARF YAUPON HOLLY	ILEX VOMITORIA 'NANA'	7 GALLON	AS SHOWN
	300	DWARF BURFORD HOLLY	ILEX CORNUTA 'DWARF BURFORD'	7 GALLON	AS SHOWN
	47	SUNSHINE LIGUSTRUM	LIGUSTRUM SINENSE 'SUNSHINE'	7 GALLON	AS SHOWN
	207	ABELIA 'KALEIDOSCOPE'	ABELIA X GRANDIFLORA 'KALEIDOSCOPE'	3 GALLON	AS SHOWN
	22	SALVIA GREGGII - PINK	SALVIA GREGGII	3 GALLON	24" O.C.
	210	PINK MUHLY GRASS	MUHLENBERGIA CAPILLARIS	1 GALLON	36" O.C. OR AS SHOWN
	141	LIRIOPE 'BIG BLUE'	LIRIOPE MUSCARI	1 GALLON	12" O.C.
	354	ANNUAL COLOR	4" POTS COLOR SCHEME - RED/PINK/WHITE	SQUARE FEET	100% COVERAGE
	700	ASIAN JASMINE GROUNDCOVER	4" POTS BROWN METAL EDGING AROUND	SQUARE FEET	100% COVERAGE
	143,555	BERMUDA SOD TIF 419		SQUARE FEET	100% COVERAGE
	1,910	4" BROWN METAL EDGING		LINEAR FEET	

GENERAL LANDSCAPE NOTES

LANDSCAPE STANDARDS

1. PLANTINGS AND LANDSCAPE ELEMENTS SHALL COMPLY WITH THE CITY'S ENGINEERING DESIGN STANDARDS & PUBLIC R.O.W. VISIBILITY REQUIREMENTS
2. UNLESS OTHERWISE SPECIFIED, TREES SHALL BE PLANTED NO LESS THAN 4' FROM CURBS, SIDEWALKS, UTILITY LINES, SCREENING WALLS AND OTHER STRUCTURES. THE CITY HAS FINAL APPROVAL FOR ALL TREE PLACEMENTS.
3. A MINIMUM THREE FEET (3') RADIUS AROUND A FIRE HYDRANT MUST REMAIN CLEAR OF LANDSCAPE.
4. THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) SPECIFICATIONS SHALL GOVERN PLANT QUALIFICATIONS, GRADES, AND STANDARDS.
5. TREE PLANTING SHALL COMPLY WITH DETAILS IN THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) STANDARDS.
6. A 2-3" LAYER OF MULCH SHALL BE PROVIDED AROUND THE BASE OF THE PLANTED TREE IN GRASS AREA. THE MULCH SHALL BE PULLED BACK 4" FROM THE TRUNK OF THE TREE.
7. TREE PITS SHALL BE TESTED FOR WATER PERCOLATION. IF WATER DOES NOT DRAIN OUT OF TREE PIT WITHIN 24 HOURS, THE TREE SHALL BE MOVED OR DRAINAGE SHALL BE PROVIDED.
8. ALL BEDS TO HAVE 3" OF COMPOSTED SOIL TILLED AND TURNED TO A DEPTH OF 6" MINIMUM.
9. ALL PLANT BEDS, NOT TOP-DRESSED WITH GRAVEL OR ROCK, SHALL BE TOP-DRESSED WITH A MINIMUM OF 3" OF HARDWOOD MULCH.
10. 4" METAL EDGING TO BE USED WHERE PLANTING BEDS MEET GRASS, AROUND ASIAN JASMINE, AND AROUND GRAVEL AREAS.
11. CONTRACTOR IS RESPONSIBLE FOR ASSURING ALL MATERIAL COUNTS ARE ACCURATE.



Tyler Bigham Design
1900 Royal Parkway, Suite 75074
Euless, TX 75024
(214) 425-4736

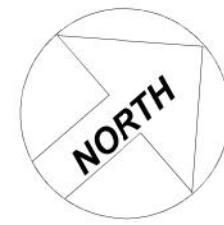
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1212 Royal Parkway,
Euless, TX

Notes:

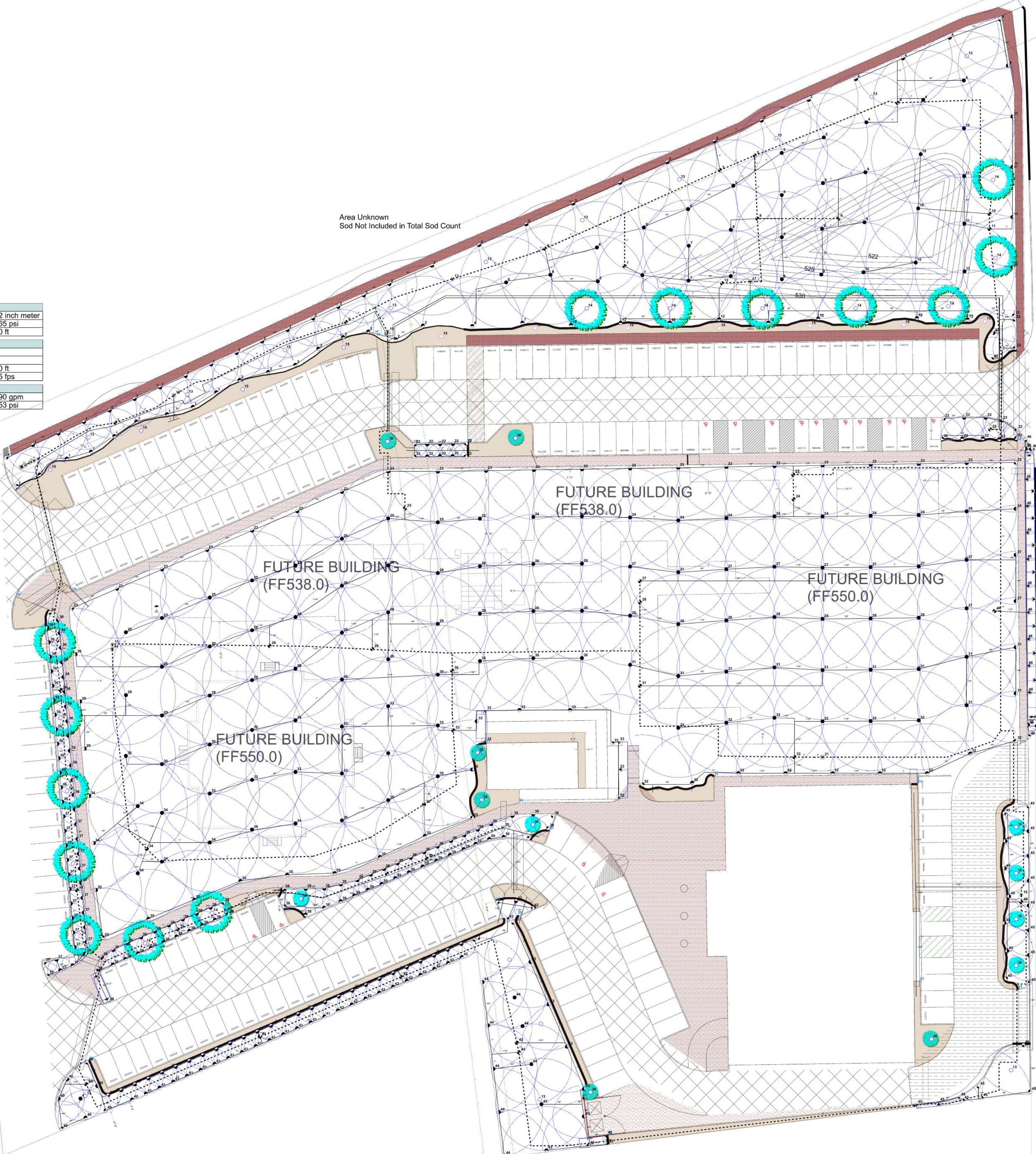
Date:
December 30, 2020
Drawn By:
TB
Scale:
1" = 30' - 0"

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OF
23
Dwg #:
LS 100
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Water Source #1	
Meter Size	2 inch meter
Static Pressure	65 psi
Elevation Change	0 ft
Service Line Information	
Pipe Category	
Pipe Size	
Length	0 ft
Velocity	5 fps
Recommendations	
Maximum Recommended Flow	90 gpm
Available Working Pressure	53 psi

Area Unknown
Sod Not Included in Total Sod Count



Irrigation

Quantity	Symbol	Description	Pressure	Flow	Radius
Sprinklers					
18	●	Hunter 8H - SRS-04	30 psi	0.47 gpm	8 ft
3	●	Hunter 8Q - SRS-04	30 psi	0.24 gpm	8 ft
4	●	Hunter ES-515 - SRS-04	30 psi	0.65 gpm	15 x 5 ft
1	□	Hunter MP Left Strip - PROS-04-PRS30	30 psi	0.19 gpm	15 x 5 ft
1	□	Hunter MP Left Strip - Reduced - PROS-04-PRS30	30 psi	0.14 gpm	12 x 4 ft
3	□	Hunter MP Right Strip - PROS-04-PRS30	30 psi	0.19 gpm	15 x 5 ft
1	□	Hunter MP Right Strip - Reduced - PROS-04-PRS30	30 psi	0.14 gpm	12 x 4 ft
1	□	Hunter MP Side Strip - PROS-04-PRS30	30 psi	0.38 gpm	30 x 5 ft
1	□	Hunter MP Side Strip - Reduced - PROS-04-PRS30	30 psi	0.27 gpm	24 x 4 ft
2	●	Hunter MP1000 90° - PROS-04-PRS30	30 psi	0.16 gpm	12 ft
42	●	Hunter MP2000 180° - PROS-04-PRS30	30 psi	0.63 gpm	17 ft
1	●	Hunter MP2000 360° - PROS-04-PRS30	30 psi	1.27 gpm	17 ft
6	●	Hunter MP2000 90° - PROS-04-PRS30	30 psi	0.33 gpm	18 ft
86	●	Hunter MP3000 180° - PROS-04-PRS30	25 psi	1.44 gpm	25 ft
136	●	Hunter MP3000 360° - PROS-04-PRS30	30 psi	3.15 gpm	27 ft
16	●	Hunter MP3000 90° - PROS-04-PRS30	25 psi	0.69 gpm	25 ft
17	●	Hunter SS-530 - US-400	30 psi	1.3 gpm	30 x 5 ft
8	●	Rain Bird 10H - US-400	30 psi	0.79 gpm	10 ft
2	●	Rain Bird 10Q - US-400	30 psi	0.39 gpm	10 ft
1	●	Rain Bird 12F - US-400	30 psi	2.6 gpm	12 ft
8	●	Rain Bird 12H - US-400	30 psi	1.3 gpm	12 ft
10	●	Rain Bird 12Q - US-400	30 psi	0.65 gpm	12 ft
52	●	Rain Bird 1402	30 psi	0.5 gpm	0 ft
5	●	Rain Bird 15H - US-400	30 psi	1.85 gpm	15 ft
3	●	Rain Bird 15Q - US-400	30 psi	0.92 gpm	15 ft
4	●	Rain Bird 5H - US-400	30 psi	0.2 gpm	5 ft
2	●	Rain Bird 5Q - US-400	30 psi	0.1 gpm	5 ft
129	●	Rain Bird 8H - US-400	30 psi	0.52 gpm	8 ft
12	●	Rain Bird 8Q - US-400	30 psi	0.26 gpm	8 ft

Meters/Pumps

1	Ⓜ	2 inch meter
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Backflow Assemblies

1	Ⓢ	Febco 850 - 2"
---	---	----------------

Control Valves

38	Ⓢ	Rain Bird 150-PGA Angle
1	Ⓢ	Rain Bird 200-PGA Angle
4	Ⓢ	Rain Bird XCZ-100-PRB-COM
5	Ⓢ	Rain Bird XCZ-100-PRB-LC

Irrigation Accessories

1	Ⓢ	Miscellaneous 2 INCH Y-STRAINER
1	Ⓢ	Nibco 2" isolation valve
1	Ⓢ	Rain Bird ESP-LXD
1	Ⓢ	Rain Bird RAIN/FREEZE SENSOR

Lateral Line Pipe

4872 ft	—	Class 200 3/4"
3535 ft	—	Class 200 1"
645 ft	—	Class 200 1 1/4"
1235 ft	—	Class 200 1 1/2"

Mainline Pipe

3760 ft	---	Class 200 2"
---------	-----	--------------

Sleeving

388 ft	---	Class 315 1/2"
397 ft	---	Class 160 4"

Drip Tubing

6458 ft	---	Rain Bird XFS-06-18
---------	-----	---------------------

EACH VALVE TO HAVE RAINBIRD FD-101 TURF DECODER.
SURGE PROTECTION REQUIRED EVERY 500 FEET. SEE MANUFACTURER.
LSP-1 TURF LINE SURGE PROTECTION REQUIRED
REQUIRED 2 WIRE PATH
SEE RAINBIRD INSTALL GUIDELINES

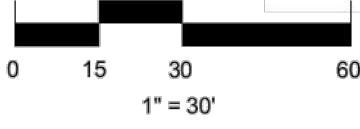
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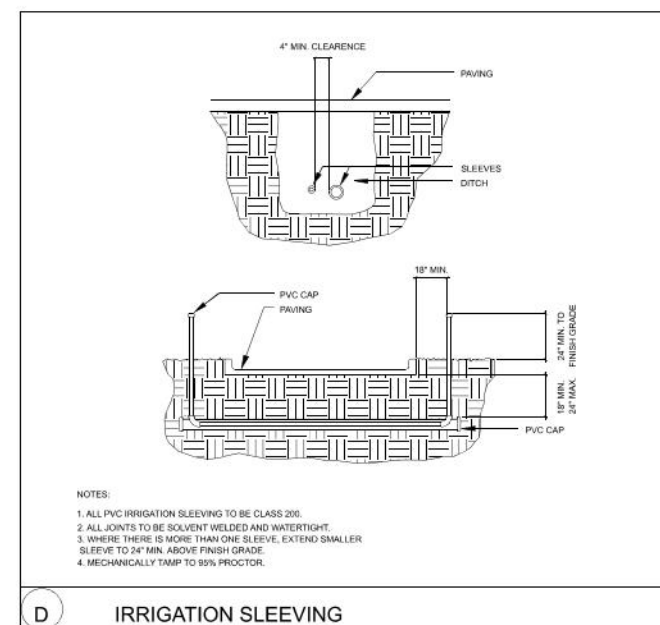
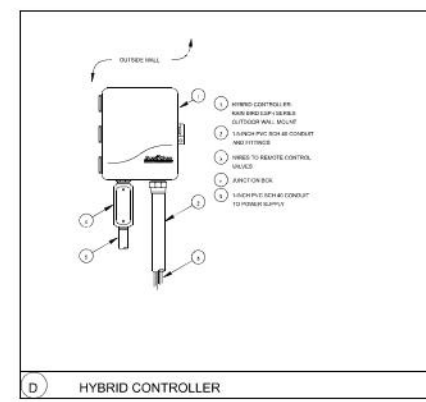
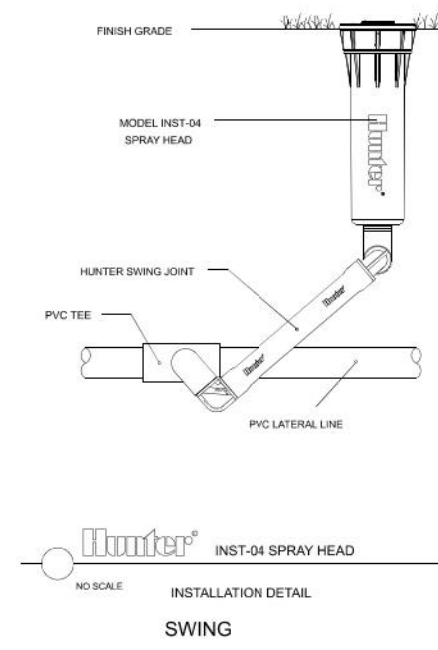
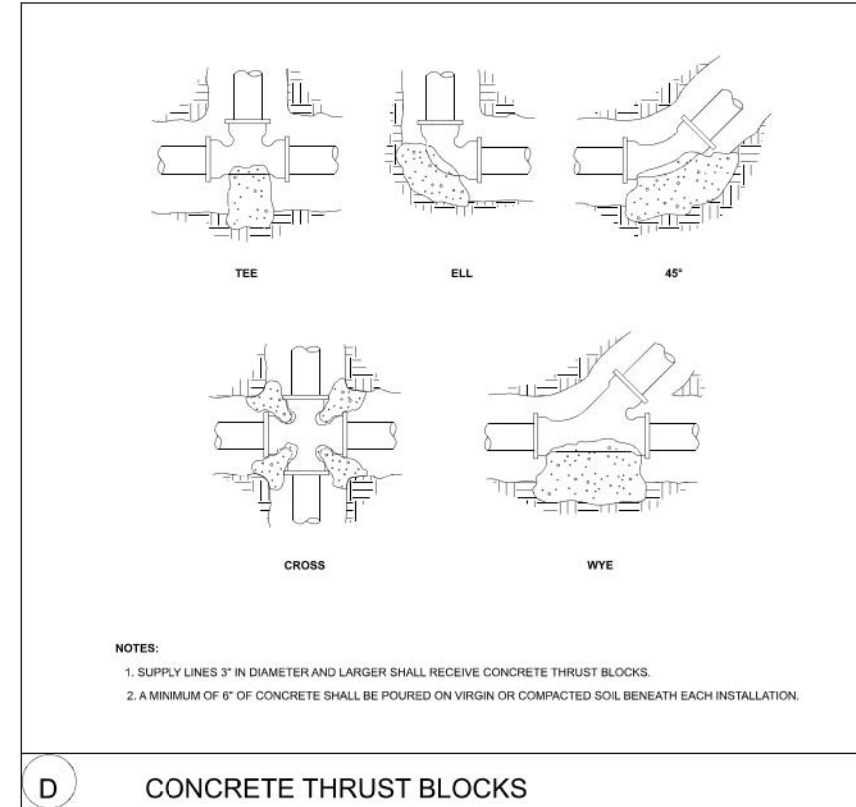
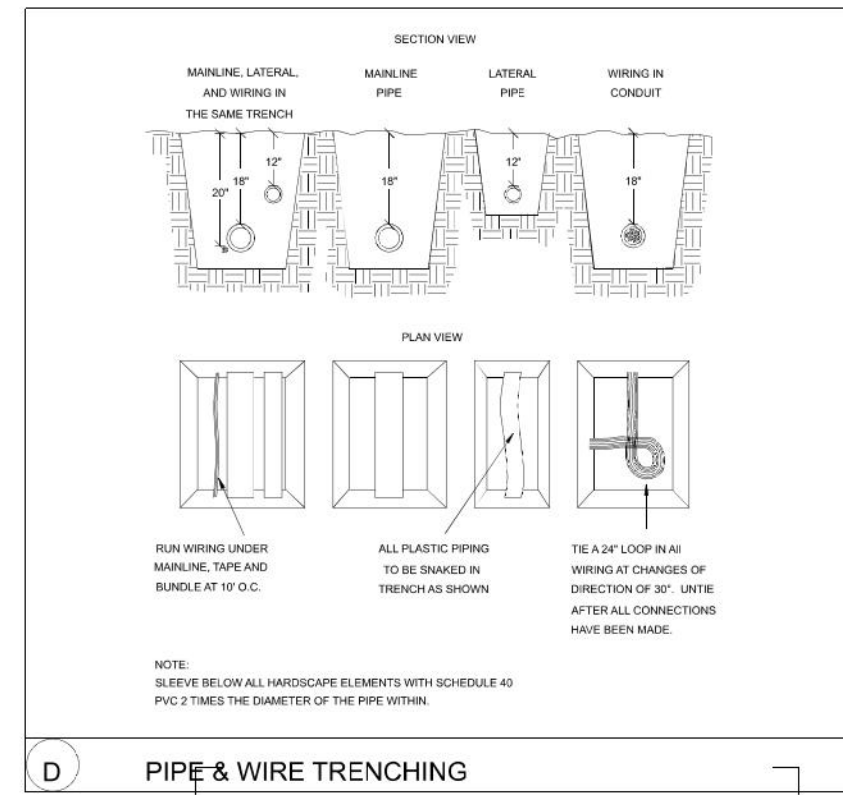
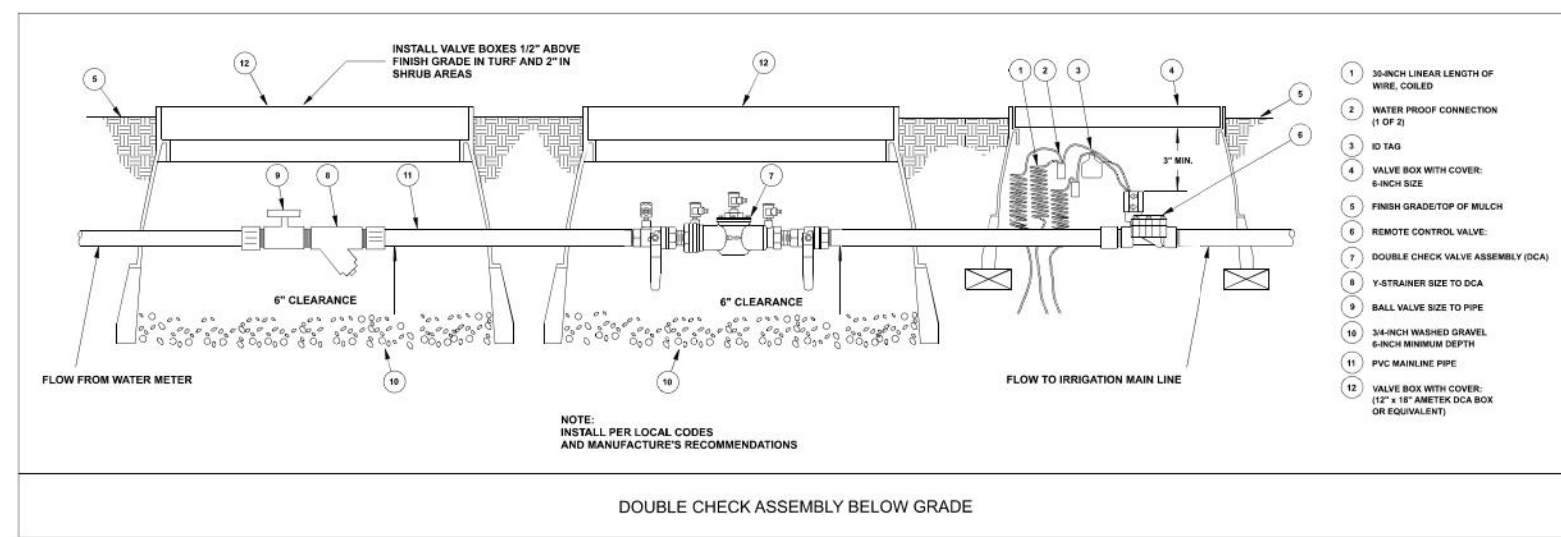
Zone #	Total Area	Total Flow	Precip Rate
1	2257.04 Sq/Ft	10.74 gpm	0.46 in/hr
2	3451.57 Sq/Ft	11.98 gpm	0.33 in/hr
3	6189.44 Sq/Ft	12.64 gpm	0.21 in/hr
4	5533.9 Sq/Ft	16.51 gpm	0.29 in/hr
5	7183.08 Sq/Ft	15.75 gpm	0.21 in/hr
6	5725.13 Sq/Ft	14.18 gpm	0.24 in/hr
7	6093.23 Sq/Ft	14.18 gpm	0.22 in/hr
8	5335.51 Sq/Ft	12.6 gpm	0.23 in/hr
9	6174.43 Sq/Ft	15.75 gpm	0.25 in/hr
10	8203.22 Sq/Ft	15.75 gpm	0.18 in/hr
11	5864.73 Sq/Ft	14.19 gpm	0.23 in/hr
12	7643.67 Sq/Ft	16.94 gpm	0.21 in/hr
13	40.59 Sq/Ft	6.5 gpm	15.42 in/hr
14	43.71 Sq/Ft	7 gpm	15.42 in/hr
15	12.49 Sq/Ft	2 gpm	15.42 in/hr
16	37.47 Sq/Ft	6 gpm	15.42 in/hr
22	814.53 Sq/Ft	16.01 gpm	1.69 in/hr
23	13664.58 Sq/Ft	31.5 gpm	0.22 in/hr
24	14761.63 Sq/Ft	33.08 gpm	0.22 in/hr
25	12963.47 Sq/Ft	28.35 gpm	0.21 in/hr
26	15700.53 Sq/Ft	32.94 gpm	0.2 in/hr
27	13277.63 Sq/Ft	31.51 gpm	0.23 in/hr
28	14689.81 Sq/Ft	31.5 gpm	0.21 in/hr
29	13424.49 Sq/Ft	31.23 gpm	0.22 in/hr
30	15421.81 Sq/Ft	31.5 gpm	0.2 in/hr
31	13302.16 Sq/Ft	31.51 gpm	0.23 in/hr
32	10563.7 Sq/Ft	31.44 gpm	0.29 in/hr
33	12895.85 Sq/Ft	28.67 gpm	0.21 in/hr
34	8935.03 Sq/Ft	24.93 gpm	0.27 in/hr
35	8964.76 Sq/Ft	25.01 gpm	0.27 in/hr
36	952.76 Sq/Ft	13.78 gpm	1.39 in/hr
37	865.88 Sq/Ft	13 gpm	1.45 in/hr
38	1172.13 Sq/Ft	17.3 gpm	1.42 in/hr
39	1227.43 Sq/Ft	17.18 gpm	1.35 in/hr
40	807.85 Sq/Ft	14.58 gpm	1.74 in/hr
41	1007.68 Sq/Ft	14.56 gpm	1.39 in/hr
42	906.97 Sq/Ft	12.89 gpm	1.37 in/hr
43	4118.32 Sq/Ft	13.02 gpm	0.3 in/hr
44	3719.58 Sq/Ft	14.58 gpm	0.38 in/hr
45	2043.33 Sq/Ft	11.34 gpm	0.53 in/hr
46	830.78 Sq/Ft	24.4 gpm	2.83 in/hr

Drip Zone Data

Zone #	Total Area	Total Flow	Precip Rate
17	2042.59 Sq/Ft	544.2 gph	0.43 in/hr
18	1776.21 Sq/Ft	473.4 gph	0.43 in/hr
19	1396.42 Sq/Ft	370.8 gph	0.43 in/hr
20	2194.53 Sq/Ft	583.8 gph	0.43 in/hr
21	2276.07 Sq/Ft	605.4 gph	0.43 in/hr

Water Source #2	
Meter Size	
Static Pressure	65 psi
Elevation Change	0 ft
Service Line Information	
Pipe Category	
Pipe Size	
Length	0 ft
Velocity	5 fps
Recommendations	
Maximum Recommended Flow	0 gpm
Available Working Pressure	58.5 psi





1	1 1/2"	10.74 GPM	10 1 1/2"	15.75 GPM	19 1"	7.59 GPM	28 1 1/2"	31.5 GPM	37 1 1/2"	13 GPM	46 1 1/2"	24.4 GPM
2	1 1/2"	11.98 GPM	11 1 1/2"	14.19 GPM	20 1"	9.73 GPM	29 1 1/2"	31.23 GPM	38 1 1/2"	17.3 GPM		
3	1 1/2"	12.64 GPM	12 1 1/2"	16.54 GPM	21 1"	8.11 GPM	30 1 1/2"	31.5 GPM	39 1 1/2"	17.16 GPM		
4	1 1/2"	16.51 GPM	13 1"	6.5 GPM	22 1 1/2"	16.01 GPM	31 1 1/2"	31.51 GPM	40 1 1/2"	14.58 GPM		
5	1 1/2"	15.75 GPM	14 1"	7 GPM	23 1 1/2"	31.5 GPM	32 1 1/2"	31.44 GPM	41 1 1/2"	14.56 GPM		
6	1 1/2"	14.18 GPM	15 1"	5.5 GPM	24 1 1/2"	33.08 GPM	33 1 1/2"	28.67 GPM	42 1 1/2"	12.88 GPM		
7	1 1/2"	14.18 GPM	16 1"	6 GPM	25 1 1/2"	28.35 GPM	34 1 1/2"	24.93 GPM	43 1 1/2"	13.02 GPM		
8	1 1/2"	12.6 GPM	17 1"	9.07 GPM	26 1 1/2"	32.94 GPM	35 1 1/2"	25.01 GPM	44 1 1/2"	14.58 GPM		
9	1 1/2"	15.75 GPM	18 1"	7.89 GPM	27 1 1/2"	31.51 GPM	36 1 1/2"	13.78 GPM	45 1 1/2"	11.34 GPM		

Sprinkler Zone Data

Zone #	Total Area	Total Flow	Precip Rate
1	2257.04 Sq/Ft	10.74 gpm	0.46 in/hr
2	3451.57 Sq/Ft	11.98 gpm	0.33 in/hr
3	6188.44 Sq/Ft	12.64 gpm	0.2 in/hr
4	5533.9 Sq/Ft	16.51 gpm	0.29 in/hr
5	7183.08 Sq/Ft	15.75 gpm	0.21 in/hr
6	5725.13 Sq/Ft	14.18 gpm	0.24 in/hr
7	6093.23 Sq/Ft	14.18 gpm	0.22 in/hr
8	5335.51 Sq/Ft	12.6 gpm	0.23 in/hr
9	6174.43 Sq/Ft	15.75 gpm	0.25 in/hr
10	8203.22 Sq/Ft	15.75 gpm	0.18 in/hr
11	5864.73 Sq/Ft	14.19 gpm	0.23 in/hr
12	7643.67 Sq/Ft	16.54 gpm	0.21 in/hr
13	40.59 Sq/Ft	6.5 gpm	15.42 in/hr
14	43.71 Sq/Ft	7 gpm	15.42 in/hr
15	12.49 Sq/Ft	2 gpm	15.42 in/hr
16	37.47 Sq/Ft	6 gpm	15.42 in/hr
22	914.53 Sq/Ft	16.01 gpm	1.69 in/hr
23	13664.58 Sq/Ft	31.5 gpm	0.22 in/hr
24	14761.63 Sq/Ft	33.08 gpm	0.22 in/hr
25	12963.47 Sq/Ft	28.35 gpm	0.21 in/hr
26	15700.53 Sq/Ft	32.94 gpm	0.2 in/hr
27	13277.63 Sq/Ft	31.51 gpm	0.23 in/hr
28	14689.81 Sq/Ft	31.5 gpm	0.21 in/hr
29	13424.49 Sq/Ft	31.23 gpm	0.22 in/hr
30	15421.81 Sq/Ft	31.5 gpm	0.2 in/hr
31	13302.16 Sq/Ft	31.51 gpm	0.23 in/hr
32	10583.7 Sq/Ft	31.44 gpm	0.29 in/hr
33	12896.95 Sq/Ft	28.67 gpm	0.21 in/hr
34	8935.03 Sq/Ft	24.93 gpm	0.27 in/hr
35	8964.76 Sq/Ft	25.01 gpm	0.27 in/hr
36	952.76 Sq/Ft	13.78 gpm	1.39 in/hr
37	865.89 Sq/Ft	13 gpm	1.45 in/hr
38	1172.13 Sq/Ft	17.3 gpm	1.42 in/hr
39	1227.43 Sq/Ft	17.18 gpm	1.35 in/hr
40	807.85 Sq/Ft	14.58 gpm	1.74 in/hr
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42	906.97 Sq/Ft	12.88 gpm	1.37 in/hr
43	4118.32 Sq/Ft	13.02 gpm	0.3 in/hr
44	3719.58 Sq/Ft	14.58 gpm	0.38 in/hr
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Drip Zone Data

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20	2194.53 Sq/Ft	583.8 gph	0.43 in/hr
21	2276.07 Sq/Ft	605.4 gph	0.43 in/hr

Water Source #1

Meter Size	2 inch meter
Static Pressure	65 psi
Elevation Change	0 ft

Service Line Information

Pipe Category	
Pipe Size	
Length	0 ft
Velocity	5 fps

Recommendations

Maximum Recommended Flow	90 gpm
Available Working Pressure	53 psi

Water Source #2

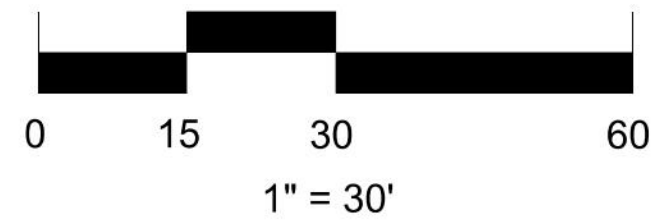
Meter Size	
Static Pressure	65 psi
Elevation Change	0 ft

Service Line Information

Pipe Category	
Pipe Size	
Length	0 ft
Velocity	5 fps

Recommendations

Maximum Recommended Flow	0 gpm
Available Working Pressure	58.5 psi



Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
	2	T2	SINGLE	1.000	21902	215	OSQ-A-NM-2ME-T-40K-_-_-w/OSQ-DA_
	10	T4	SINGLE	1.000	21902	166	OSQ-A-NM-4ME-T-40K-_-_-w/OSQ-DA_
	3	X3	SINGLE	1.000	2490	72	XSPW-B-WM-3ME-2L-40K-_-_-

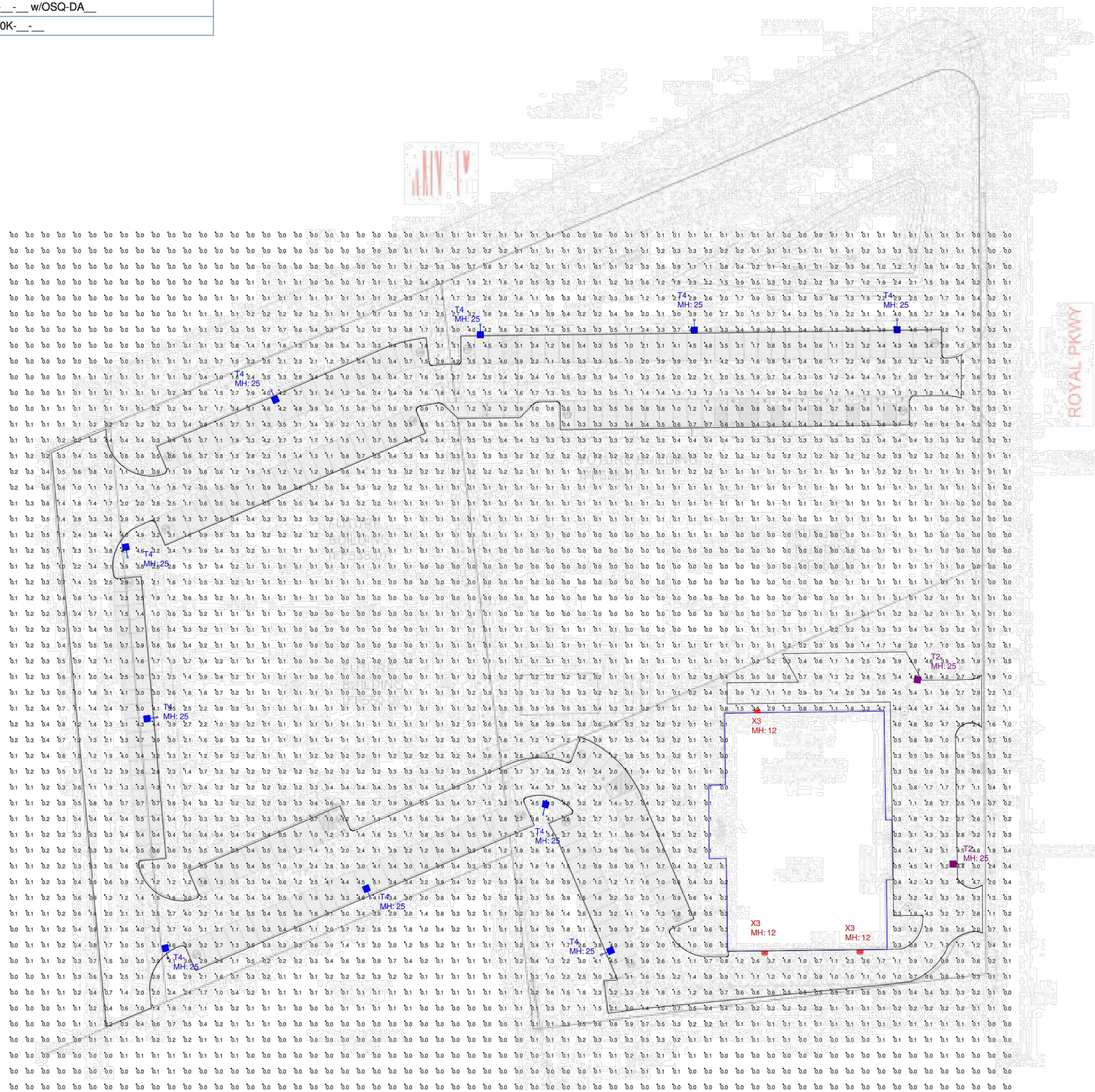
Calculation Summary (Footcandles calculated using initial lumen values @ 25°C)						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Fc	0.78	5.4	0.0	N.A.	N.A.
PAVED AREA	Fc	1.80	5.4	0.3	6.00	18.00

Pole Fixture Height: 25' AFG (22' pole + 3' base)

Pole Schedule
 (12) SSS-4-11-22-CW-BS-1D-C-_-_- (22' X 4" X 11ga STEEL SQUARE POLE)
 Proposed poles meet 130 MPH sustained winds.

Additional Equipment:
 (12) OSQ-DA_ (Direct Arm Mount)

*** CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER ***



SHEET
23
OF
23



Illumination results shown on this lighting design are based on project parameters provided to Cree Lighting used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting or energy code.

Project Name: NCSC Temple 1212 Royal Parkway Eules, TX 76040

SR-34013

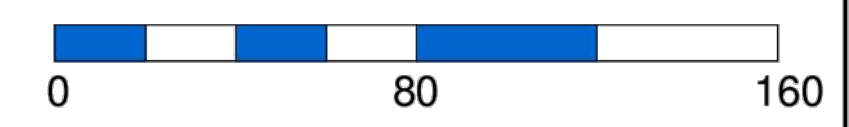
Footcandles calculated at grade

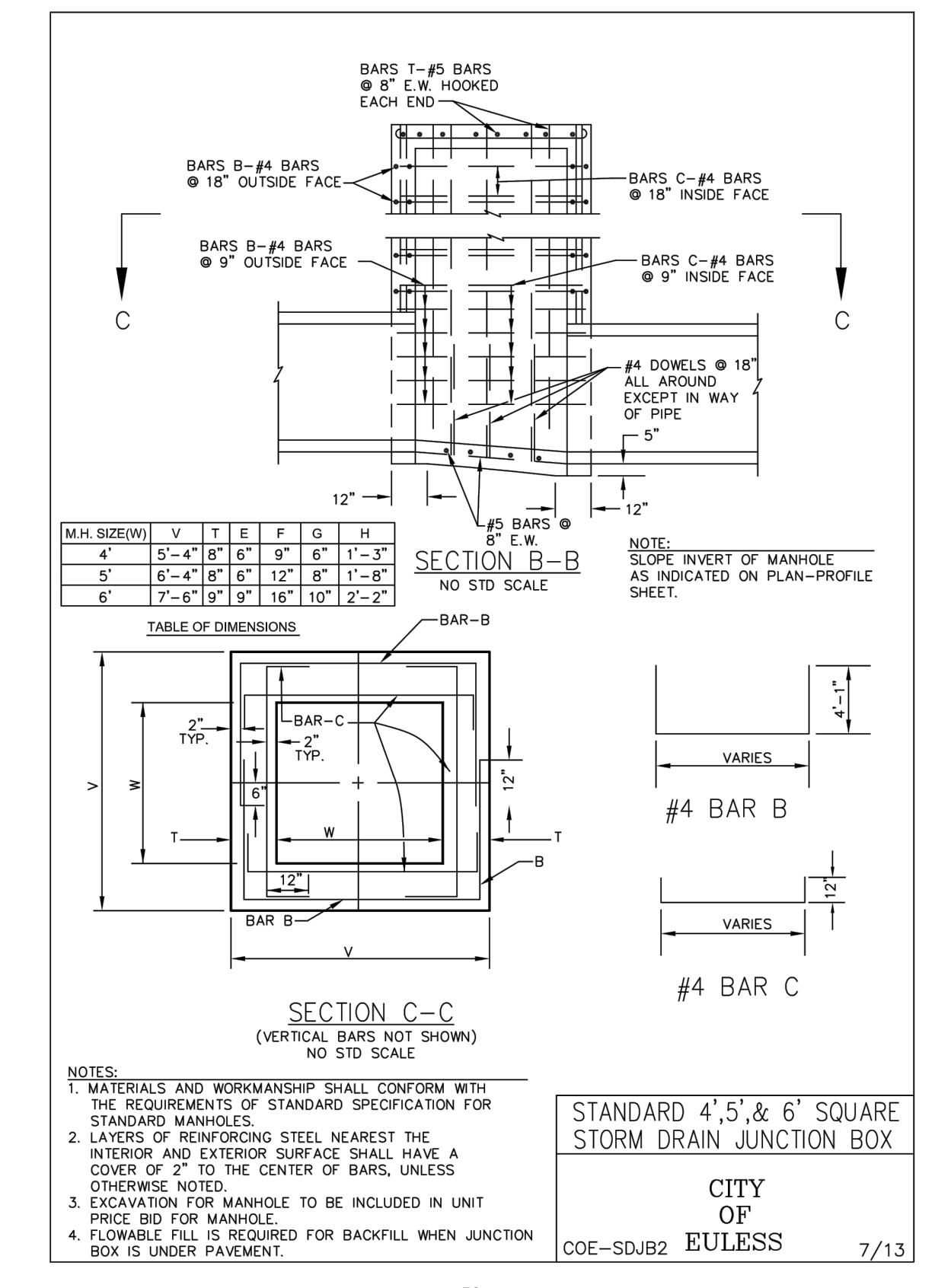
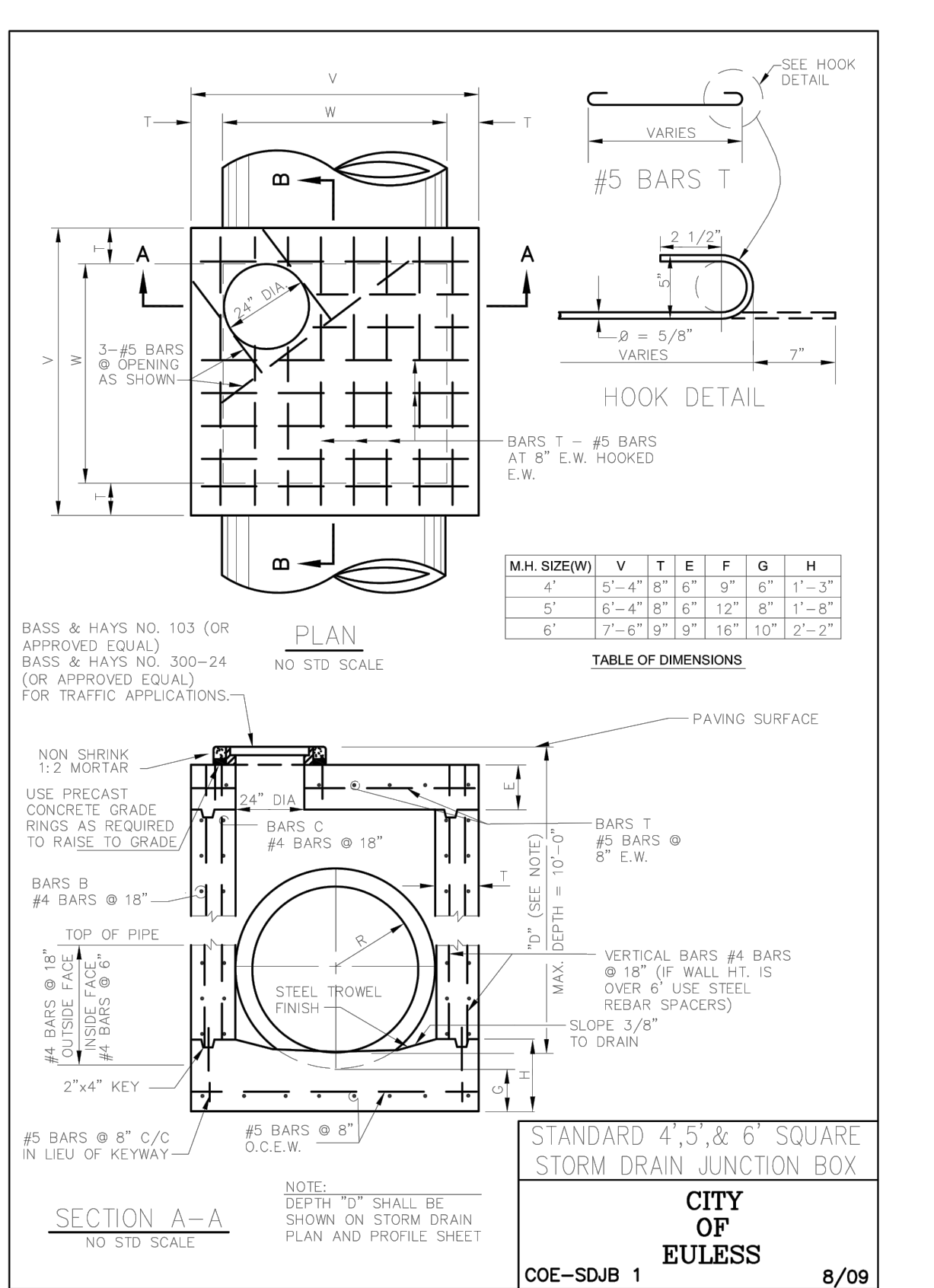
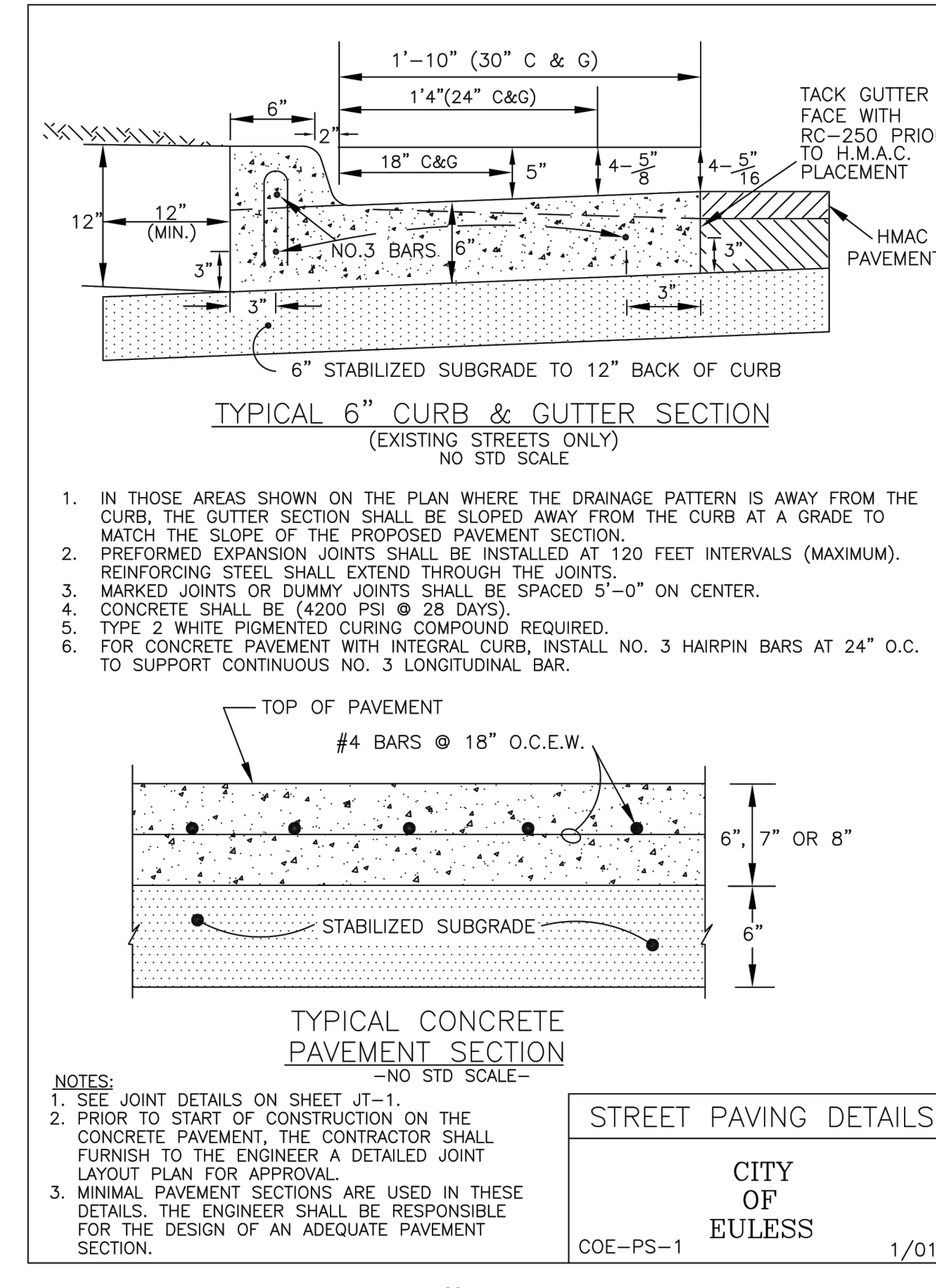
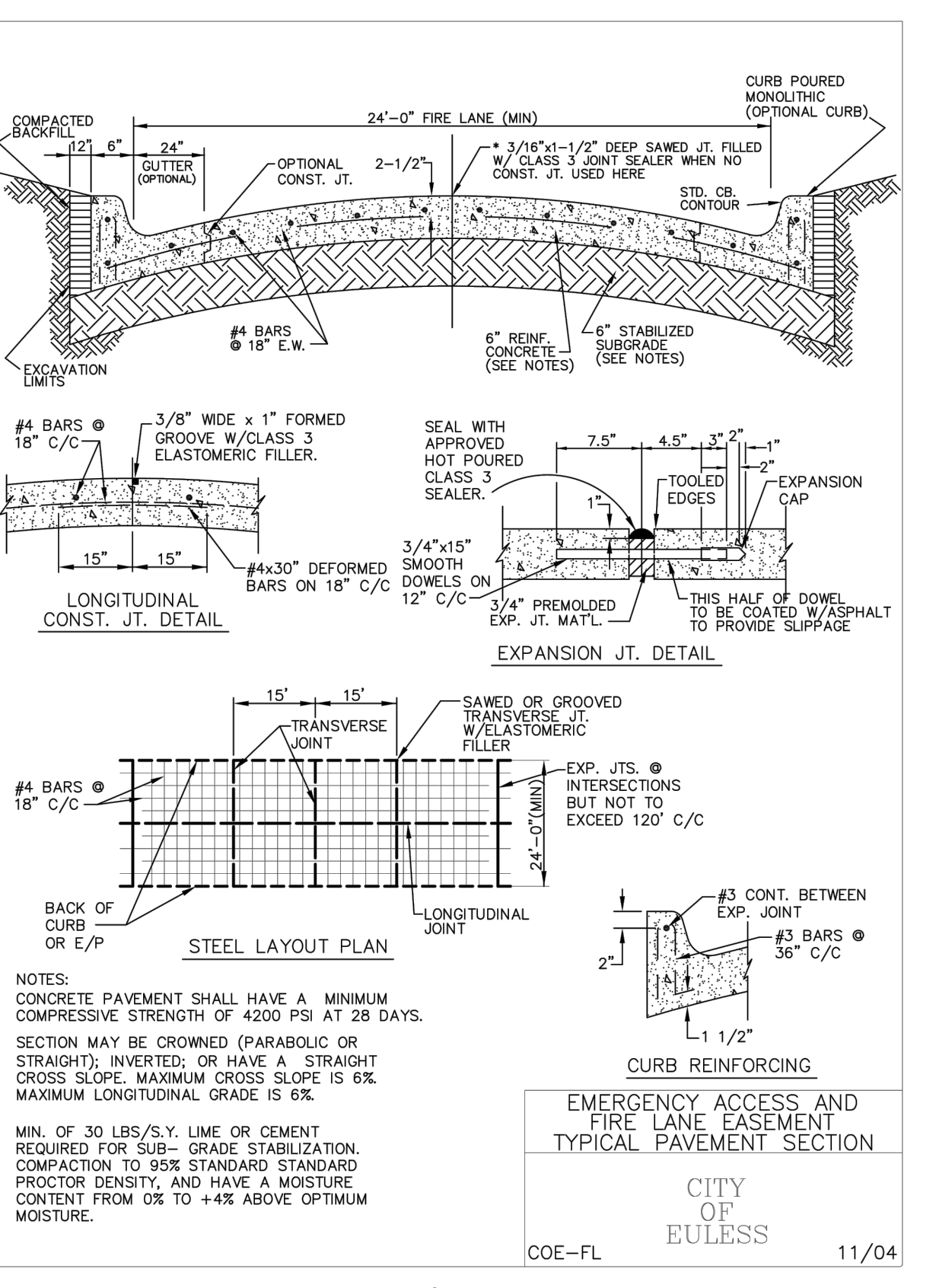
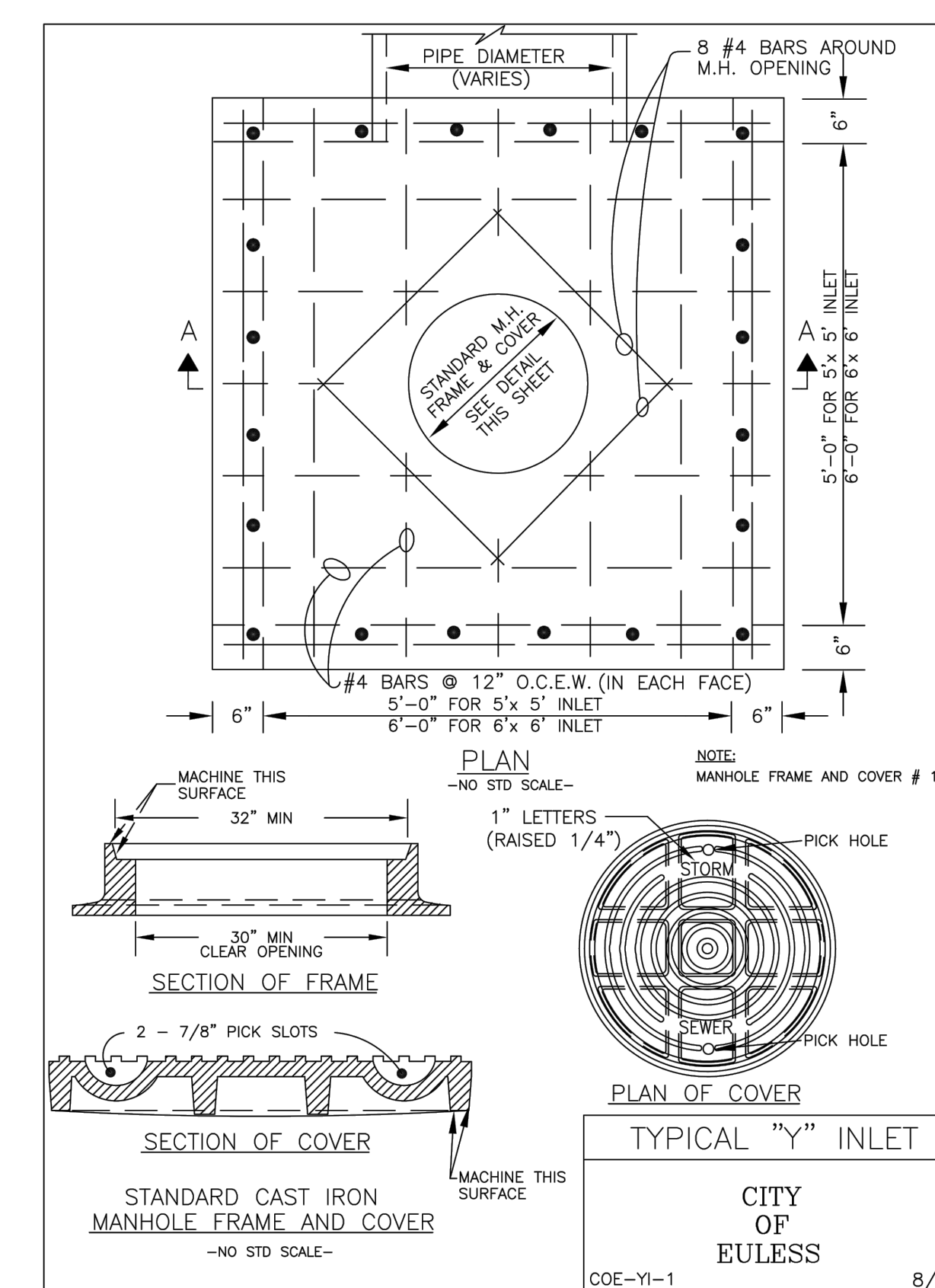
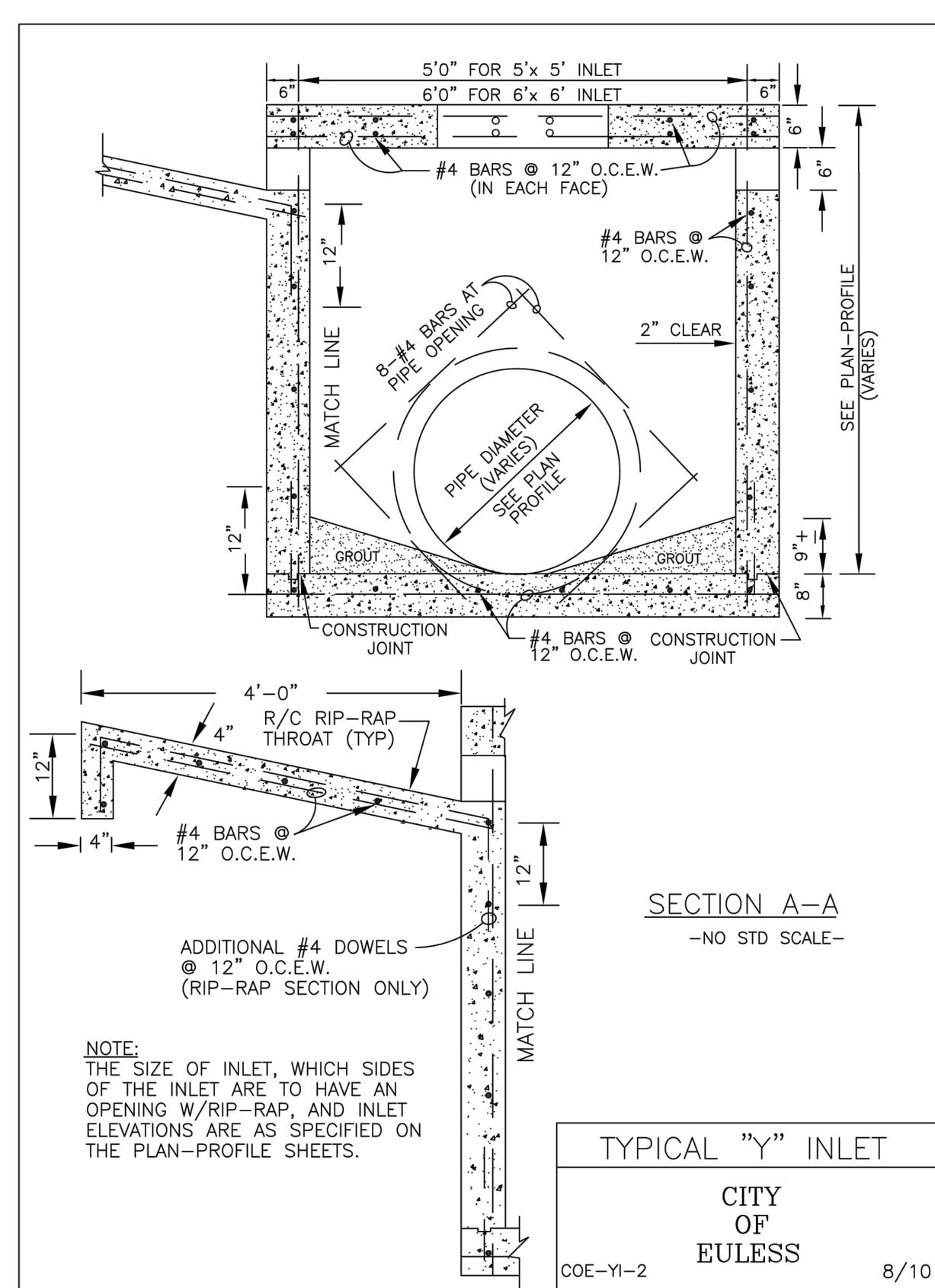
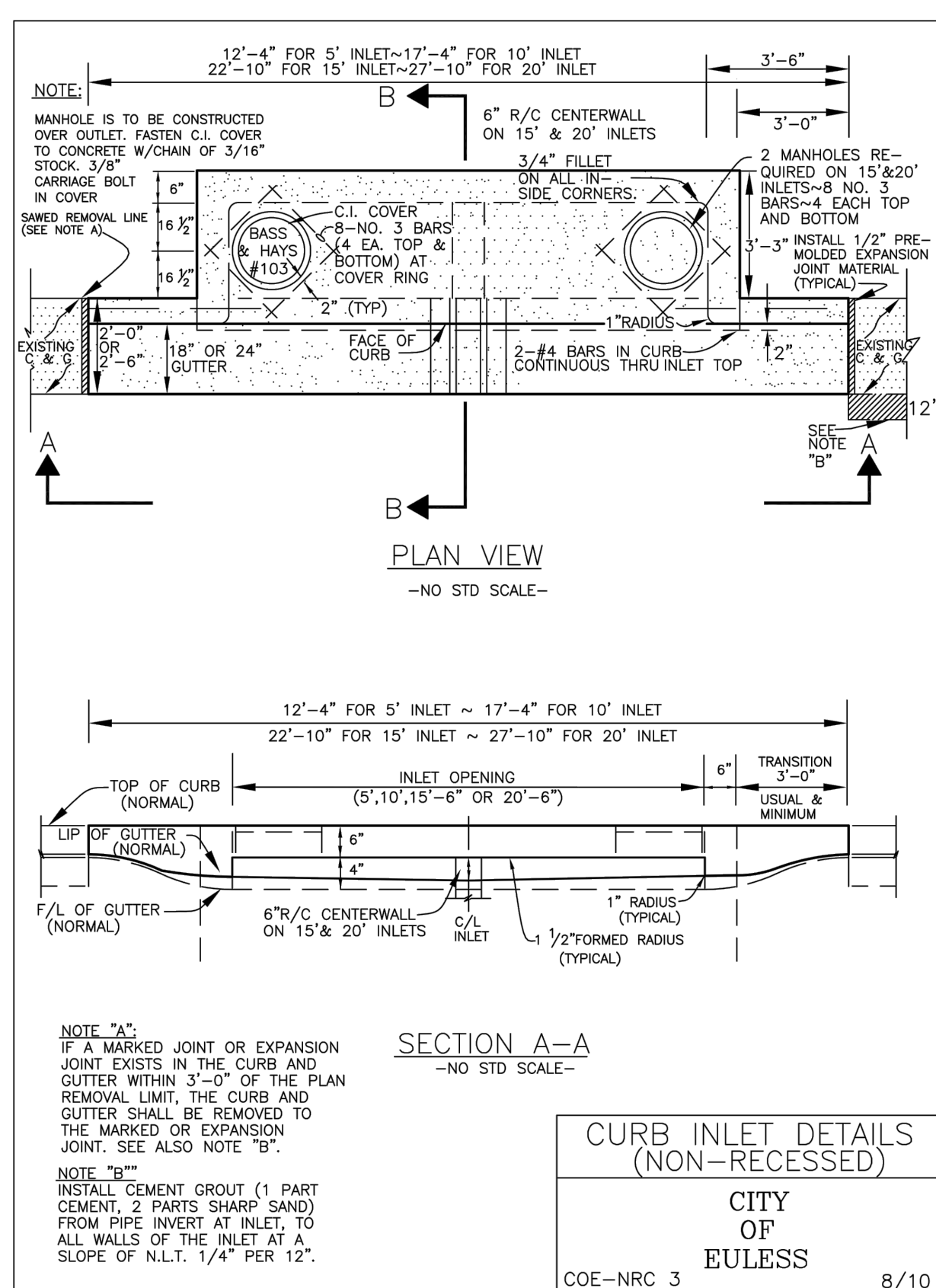
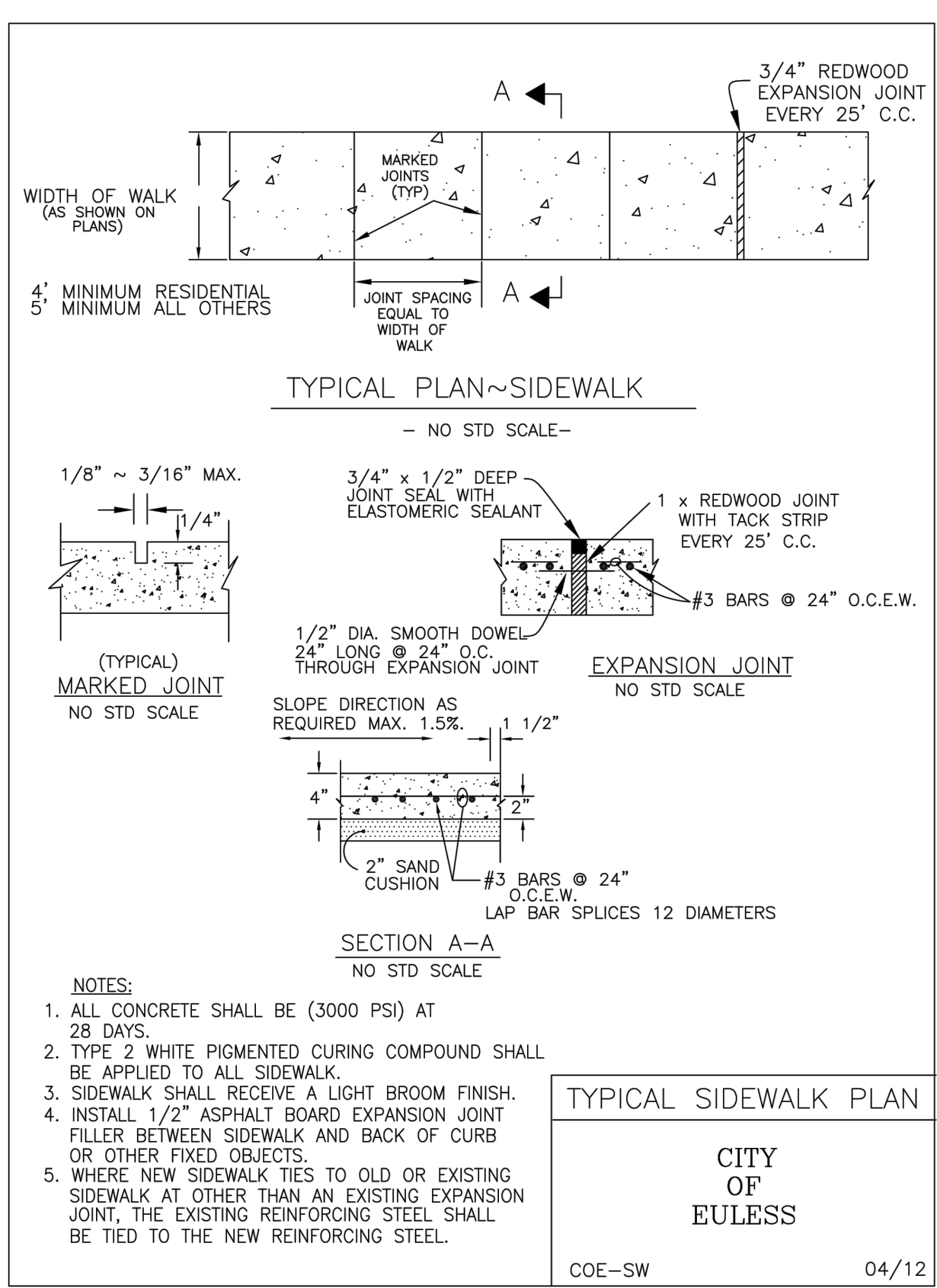
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Layout By:
Chris Schlitz

Date: 12/15/2020

Scale 1" = 40'





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202 REPUBLIC LN
EULESS, TX 76040
PH: (972) 523-5493

TBPE: F-19293

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date
MAY 2021

PRELIMINARY PLAN
For Review Only

THE CITY OF EULESS

CIVIL ENGINEERING F-19293

CITY OF EULESS

PROJECT NO.
JN 1120

STANDARD DETAILS

NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I

1212 ROYAL PARKWAY, EULESS TEXAS 76040

CITY OF EULESS

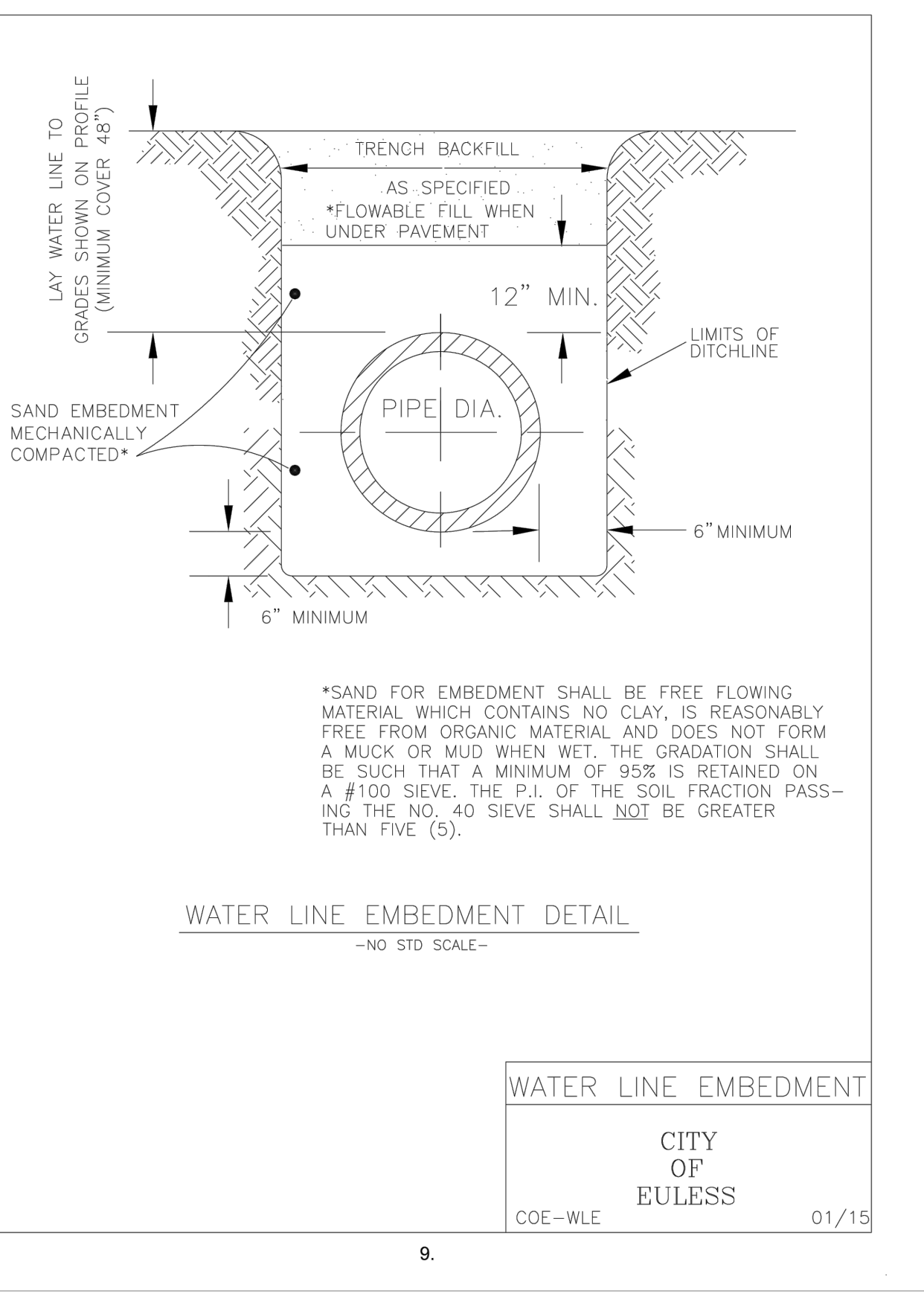
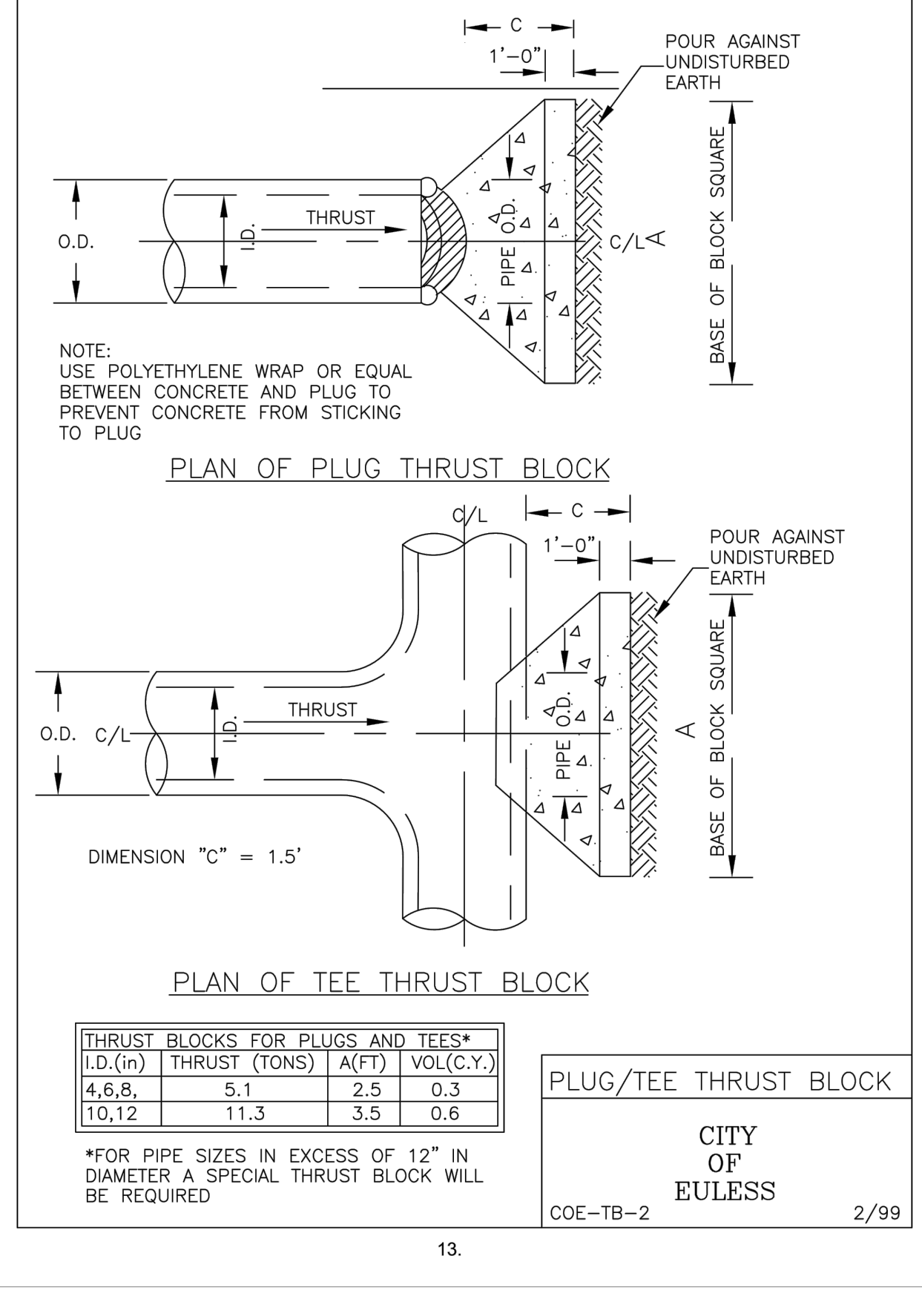
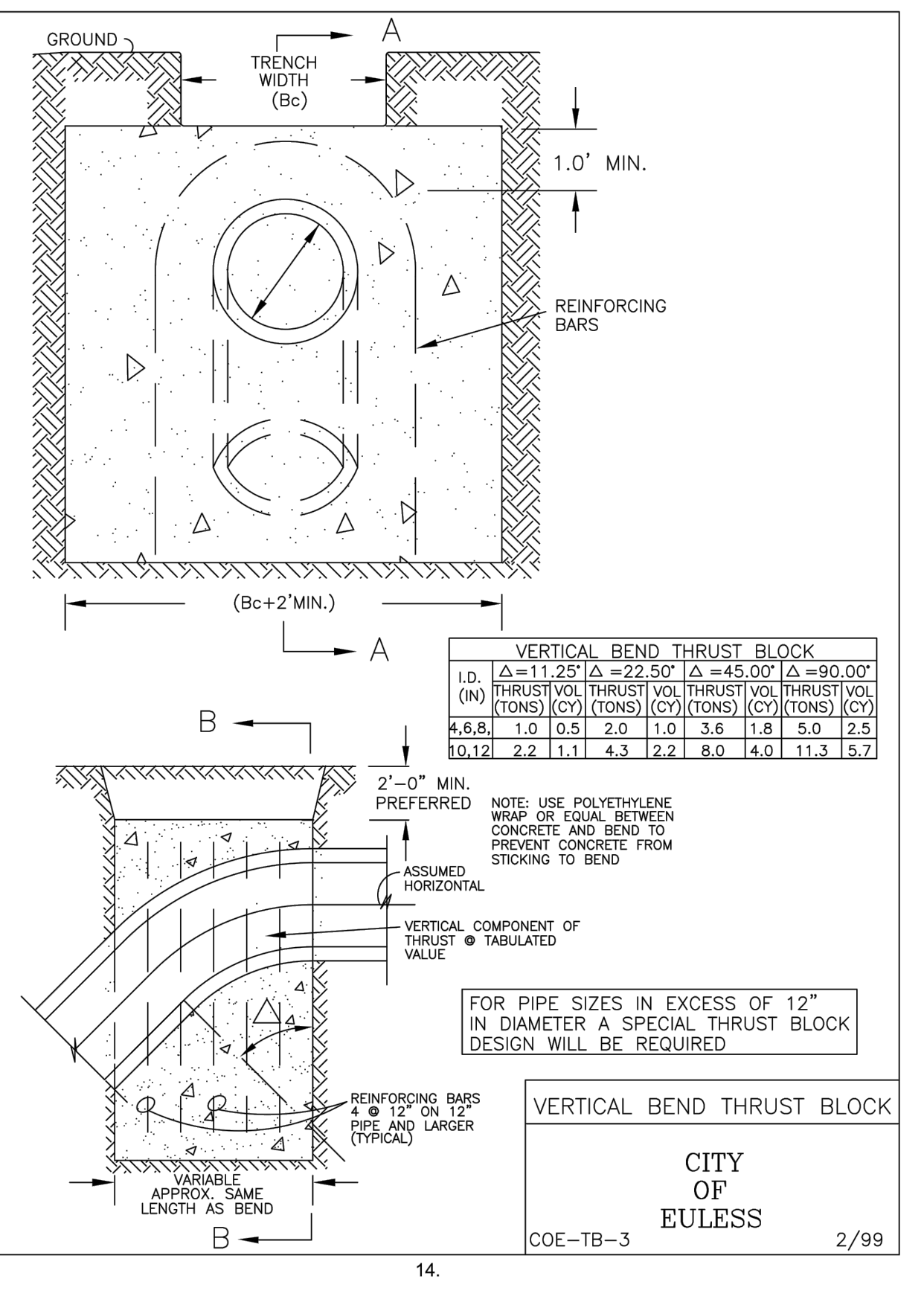
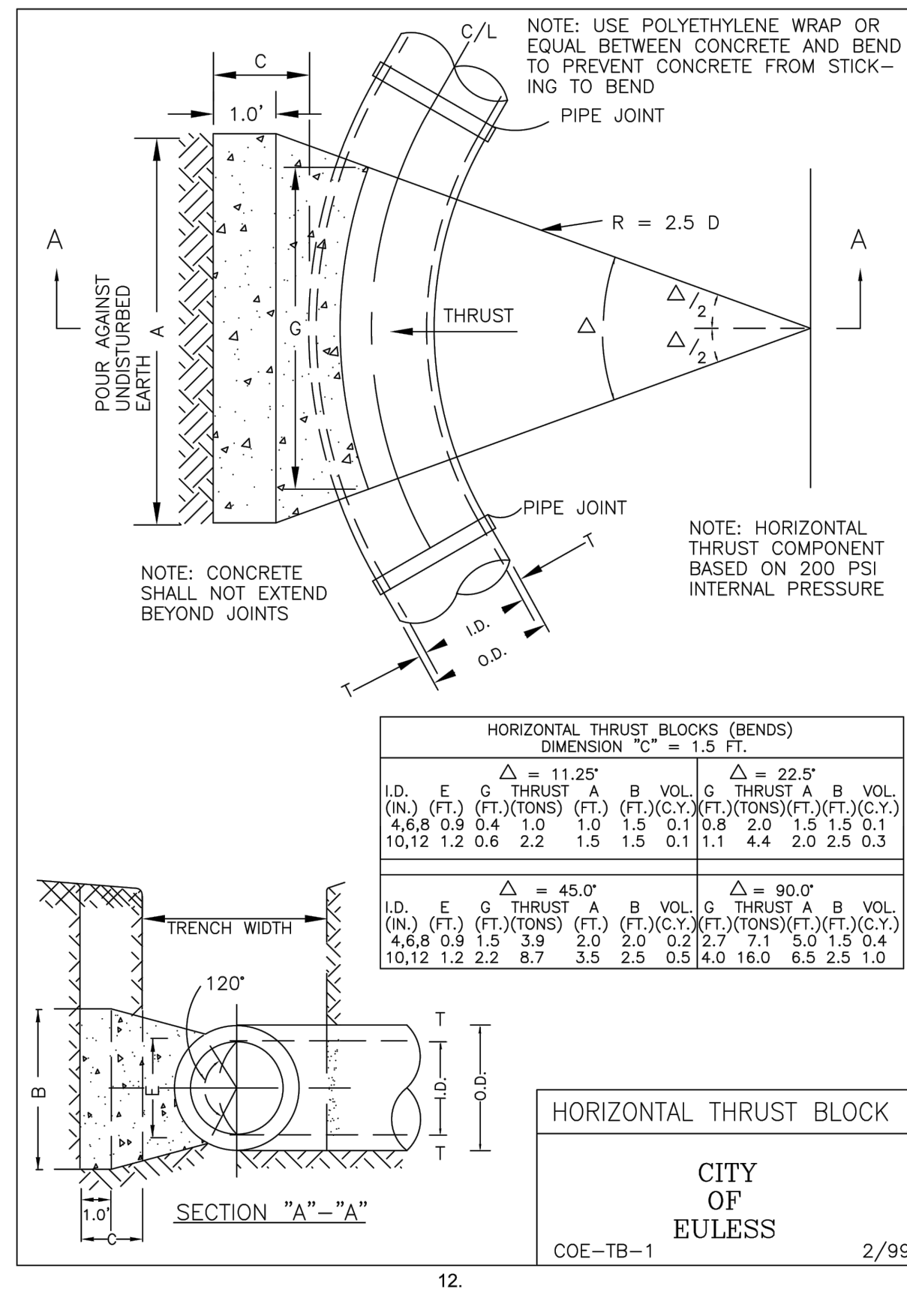
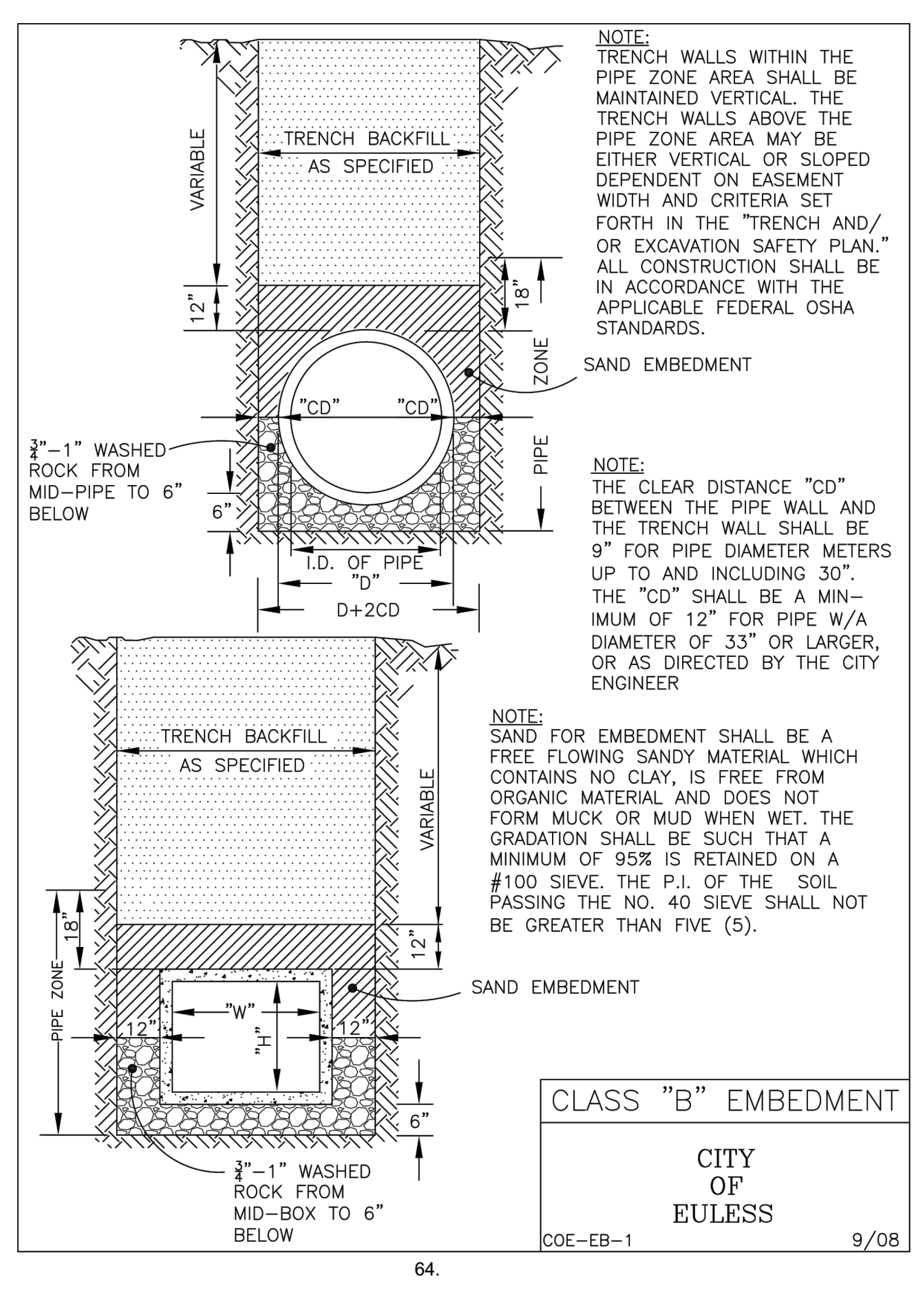
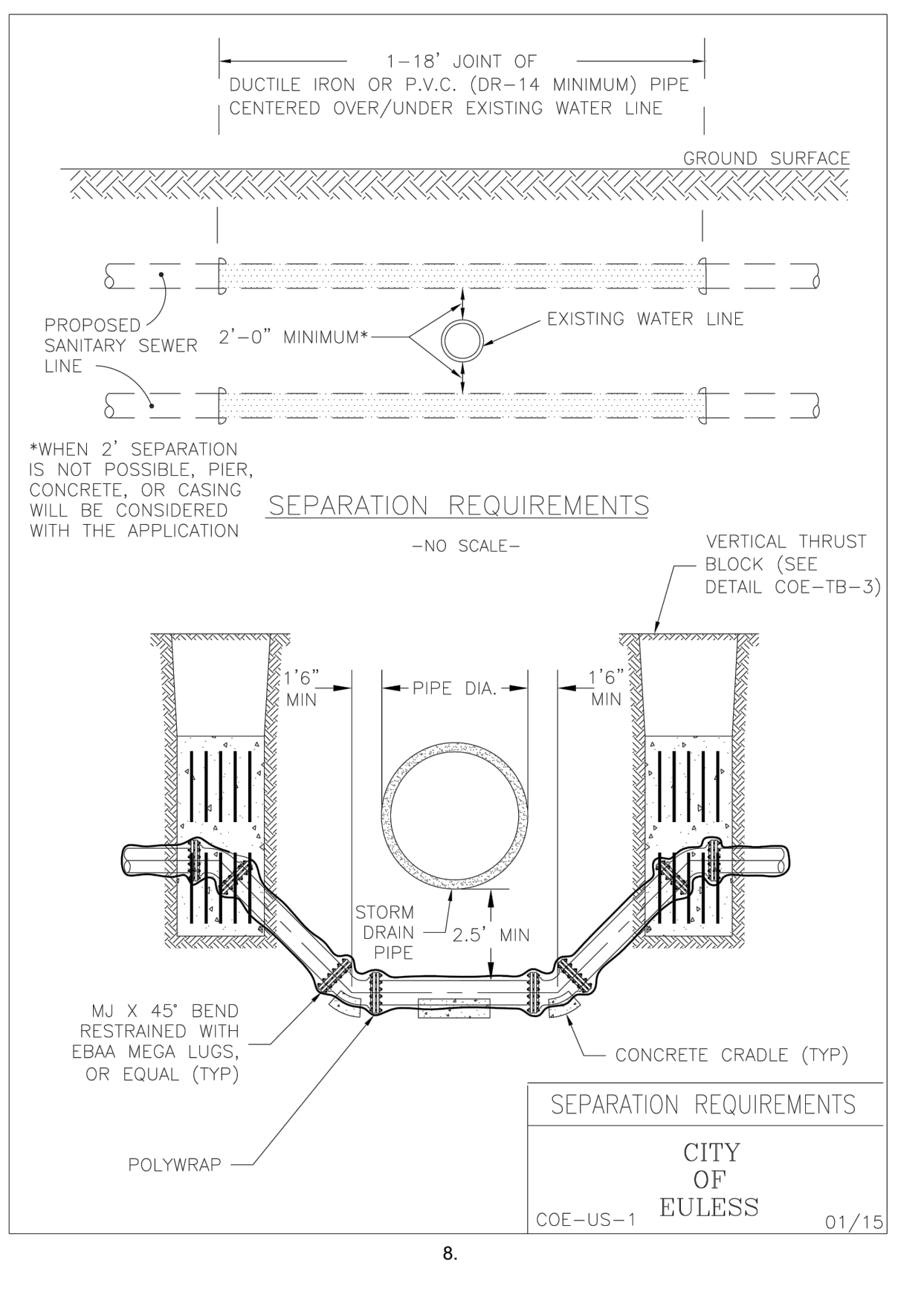
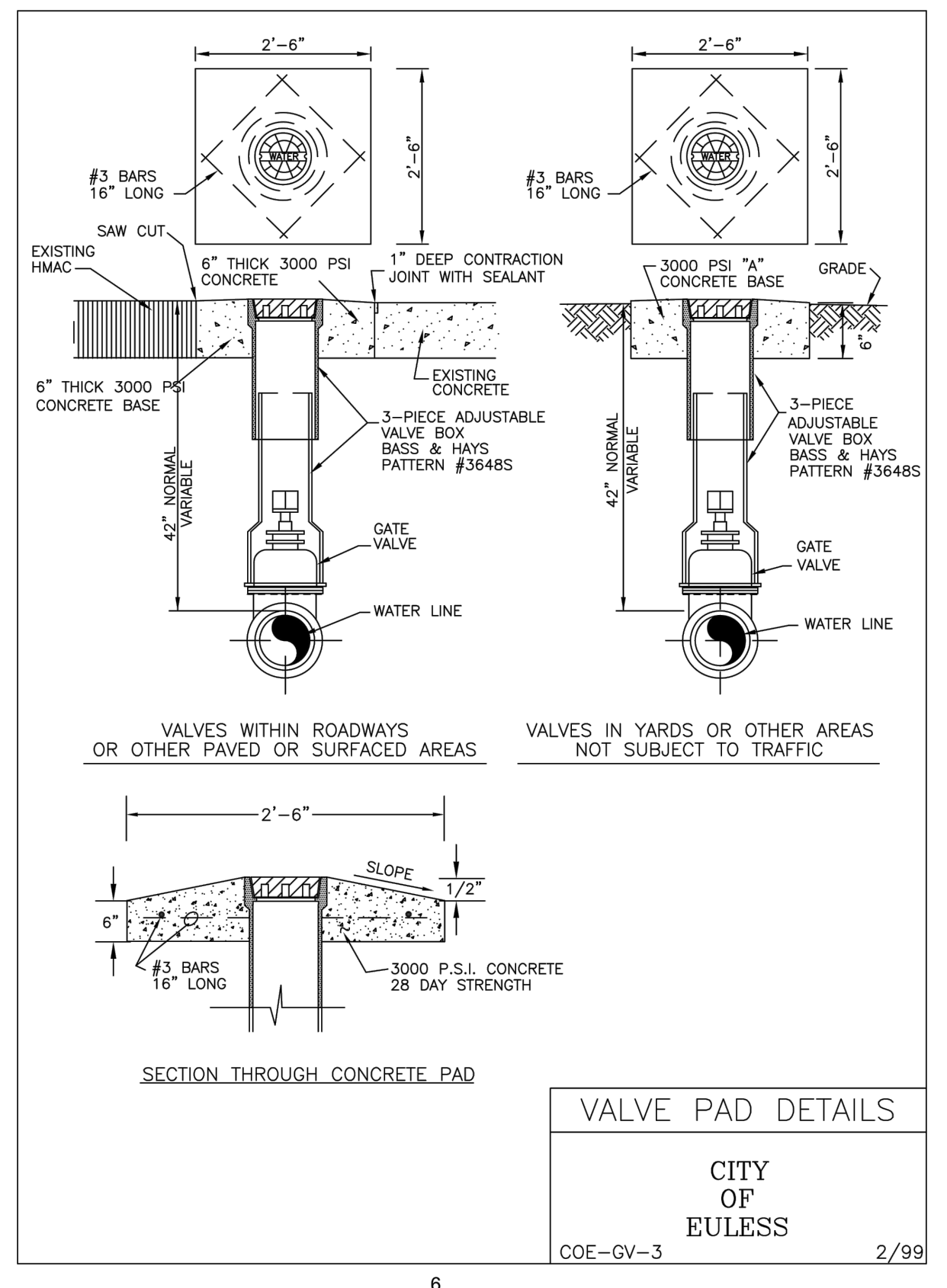
WATER LINE GATE VALVE SPECIFICATIONS

- ALL WATER LINE GATE VALVES IN THE CITY OF EULESS SHALL MEET OR EXCEED AWMA GATE VALVE STANDARD C-515, LATEST REVISION.
- ALL GATE VALVES SHALL BE OF THE RESILIENT SEATED WEDGE TYPE, FUSION BONDED EPOXY COATED TO AWMA C-550, DUCTILE IRON BODY DESIGN.
- ALL GATE VALVES SHALL BE RATED FOR ZERO LEAKAGE AT 200 PSI WATER WORKING PRESSURE AND HAVE A 400 PSI HYDROSTATIC TEST FOR STRUCTURAL SOUNDNESS FOR 4-INCH THROUGH 12-INCH DIAMETER. (ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AWMA C-509).
- GATE VALVES SHALL BE FURNISHED WITH TYPE OF END CONNECTION SPECIFIED AS FOLLOWS: 125# ANSI FLANGE DRILLING, OR MECHANICAL JOINT PER AWMA C-111.
- STEMS SHALL BE MANGANESE BRONZE HAVING A MINIMUM TENSILE STRENGTH OF 60,000 PSI., A MINIMUM YIELD OF 30,000 PSI.
- BOLTS SHALL ELECTRO-ZINC PLATED STEEL WITH "T" OR HEX HEADS AS SPECIFIED AND HEX NUTS IN ACCORDANCE WITH ASTM A-307.
- VALVES SHALL BE OF THE NON-RISING STEM TYPE (NRS).
- NRS STEM THRUST COLLARS SHALL BE CAST INTEGRAL WITH THE STEM AND MACHINED TO SIZE. A STAINLESS STEEL THRUST BEARING SHALL BE INCORPORATED TO OPTIMIZE OPERATING TORQUES.
- NRS VALVES SHALL BE FURNISHED WITH O-RING STEM SEALS USING TWO O-RINGS LOCATED ABOVE AND ONE O-RING BELOW THE THRUST COLLAR. O-RINGS SHALL BE SET IN GROOVES IN THE STEM, THE O-RING GROOVE SHALL NOT BE LESS THAN THE ROOT DIAMETER OF THE STEM THREADS.
- THE INTERNAL AND EXTERNAL IRON SURFACES OF THE VALVE BODY AND BONNET SHALL BE COATED WITH FUSION BONDED EPOXY TO AWMA C-550 STANDARDS. GATES FOR ALL VALVE SIZES SHALL BE COMPLETELY ENCAPSULATED IN RUBBER INCLUDING STEM BORE, BE FIELD REPLACEABLE AND PROVIDE A DUAL SEAL ON THE MATING BODY SEAT.
- VALVES SHALL BE CAPABLE OF INSTALLATION IN ANY POSITION WITH RATED SEALING IN BOTH DIRECTIONS.
- RUBBER SEATS OF SPECIALLY COMPOUNDED SBR MATERIAL SHALL BE UTILIZED AND BE CAPABLE OF SEALING UNDER NORMAL CONDITIONS.
- THE VALVE BODY SHALL HAVE INTEGRAL GUIDES ENGAGING INTEGRAL LUGS IN THE GATE IN A TONGUE AND GROOVE MANNER, SUPPORTING THE GATE THROUGHOUT THE ENTIRE OPEN/CLOSE TRAVEL.
- THE INSIDE AND OUTSIDE OF VALVE BODY, BONNET AND SEAL PLATE SHALL BE COATED, MINIMUM 3-5 MILS, WITH FUSION BONDED EPOXY MEETING AWMA C-550, LATEST REVISION.
- MARKING SHALL BE IN ACCORDANCE WITH AWMA C-515 STANDARDS, TO INCLUDE THE NAME OF MANUFACTURER, THE YEAR OF MANUFACTURING, MAXIMUM WORKING PRESSURE AND SIZE OF VALVE.
- RESILIENT SEATED GATE VALVES SHALL BE COVERED BY TEN YEAR LIMITED WARRANTY AGAINST DEFECTIVE MATERIALS OR WORKMANSHIP.
- ALL BOLTS, GASKETS, GLANDS, RINGS AND OTHER ACCESSORIES SHALL BE DELIVERED WITH EACH VALVE.
- ALL RESILIENT SEATED GATE VALVES SHALL BE LEFT TURN TO OPEN (LO).

THE MANUFACTURER SHALL HAVE A RELIABLE AND REPUTABLE DEALER WITHIN 25 MILES OF THE CITY OF EULESS AND MAINTAINS IN STOCK THE SPECIFIED VALVES, ALL ATTACHMENTS AND REPAIR KITS AVAILABLE IN 24 HOURS OR LESS.

APPROVED GATE VALVES:
 W & H - STEEL 3087
 AMERICAN DARLING - CRS 80 SERIES
 MULLER - 2360 SERIES
 AMERICAN FLOW CONTROL (AFC) 2500 SERIES

GATE VALVE SPECIFICATIONS
 CITY OF EULESS
 COE-GV-1 01/15



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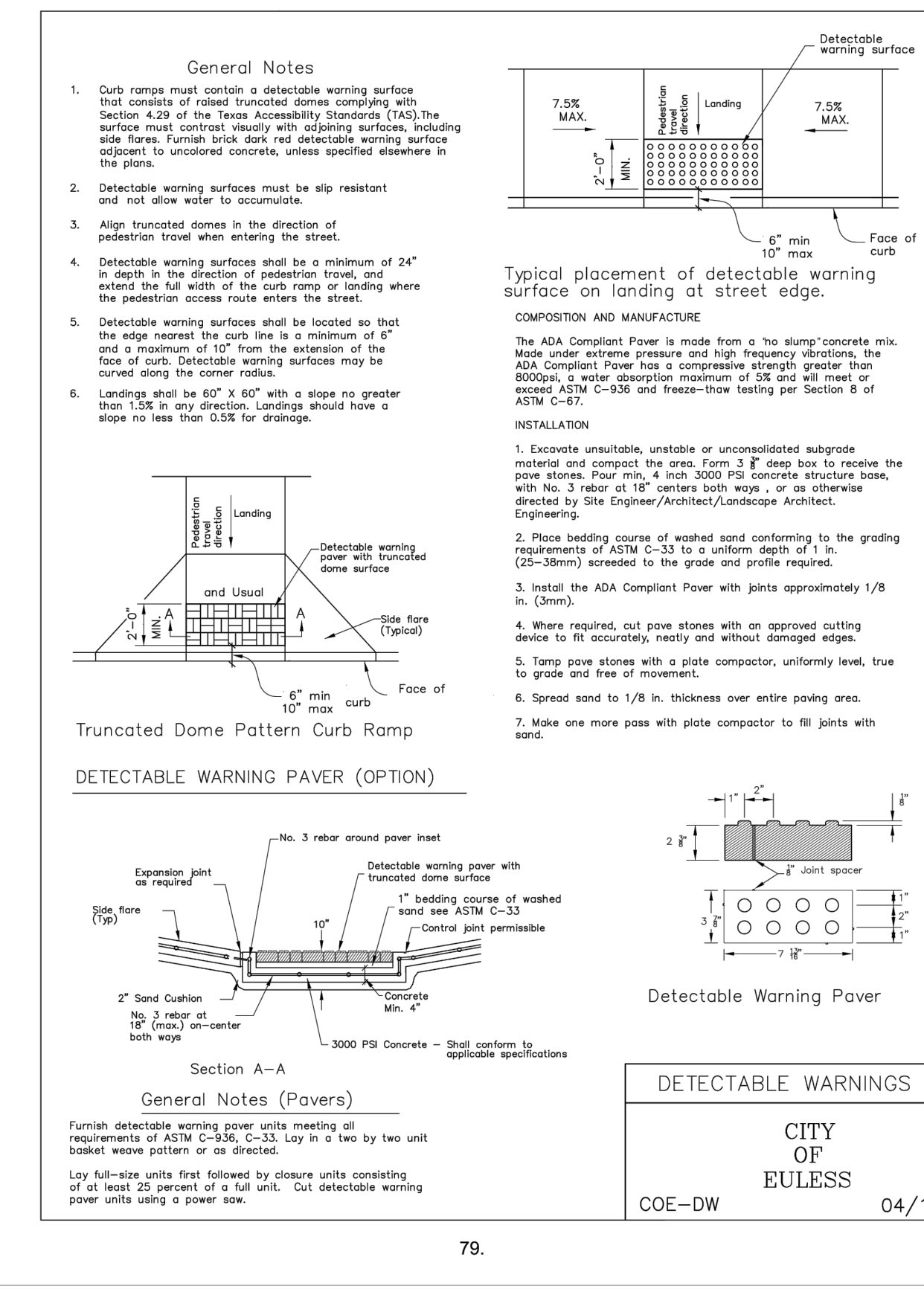
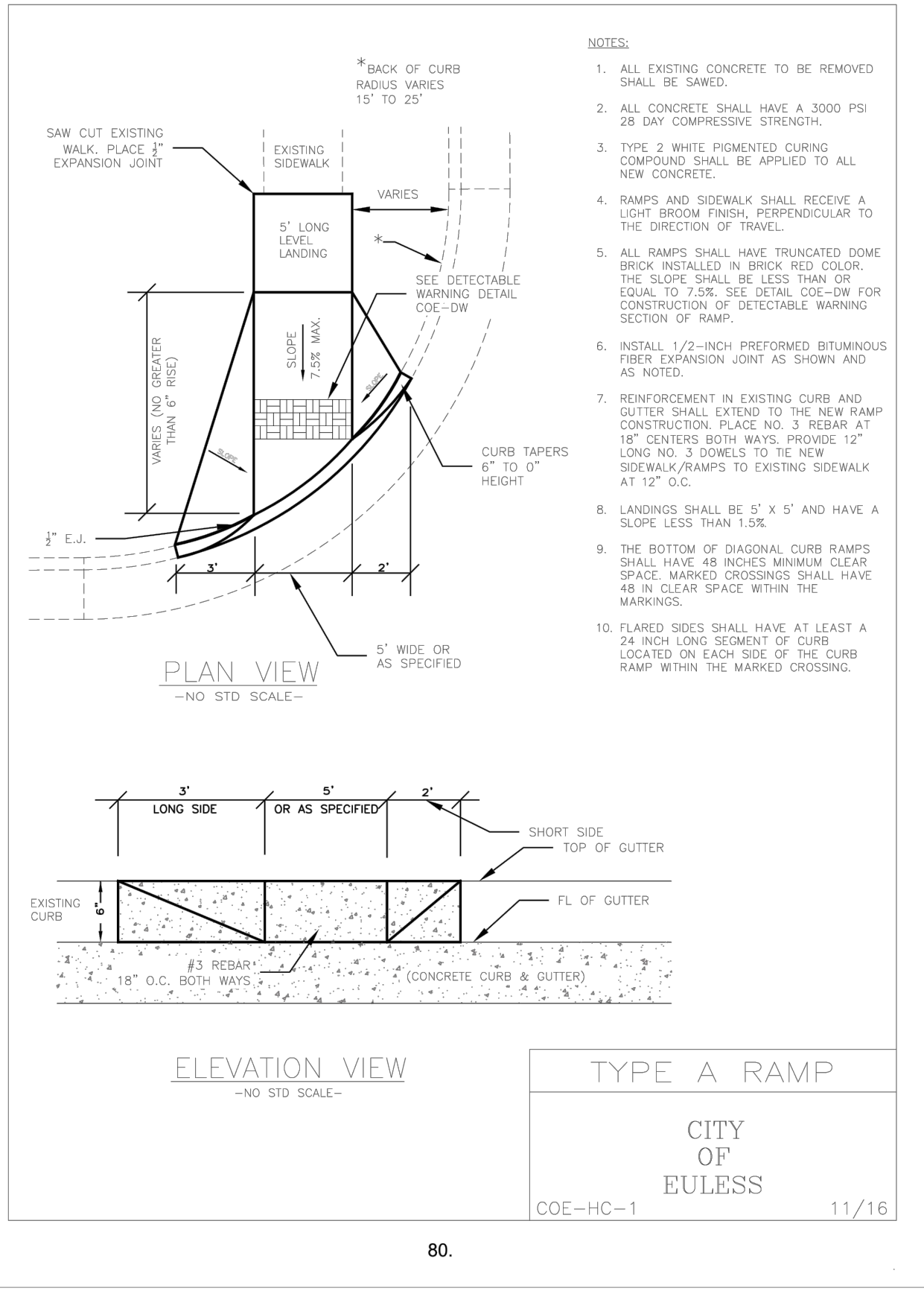
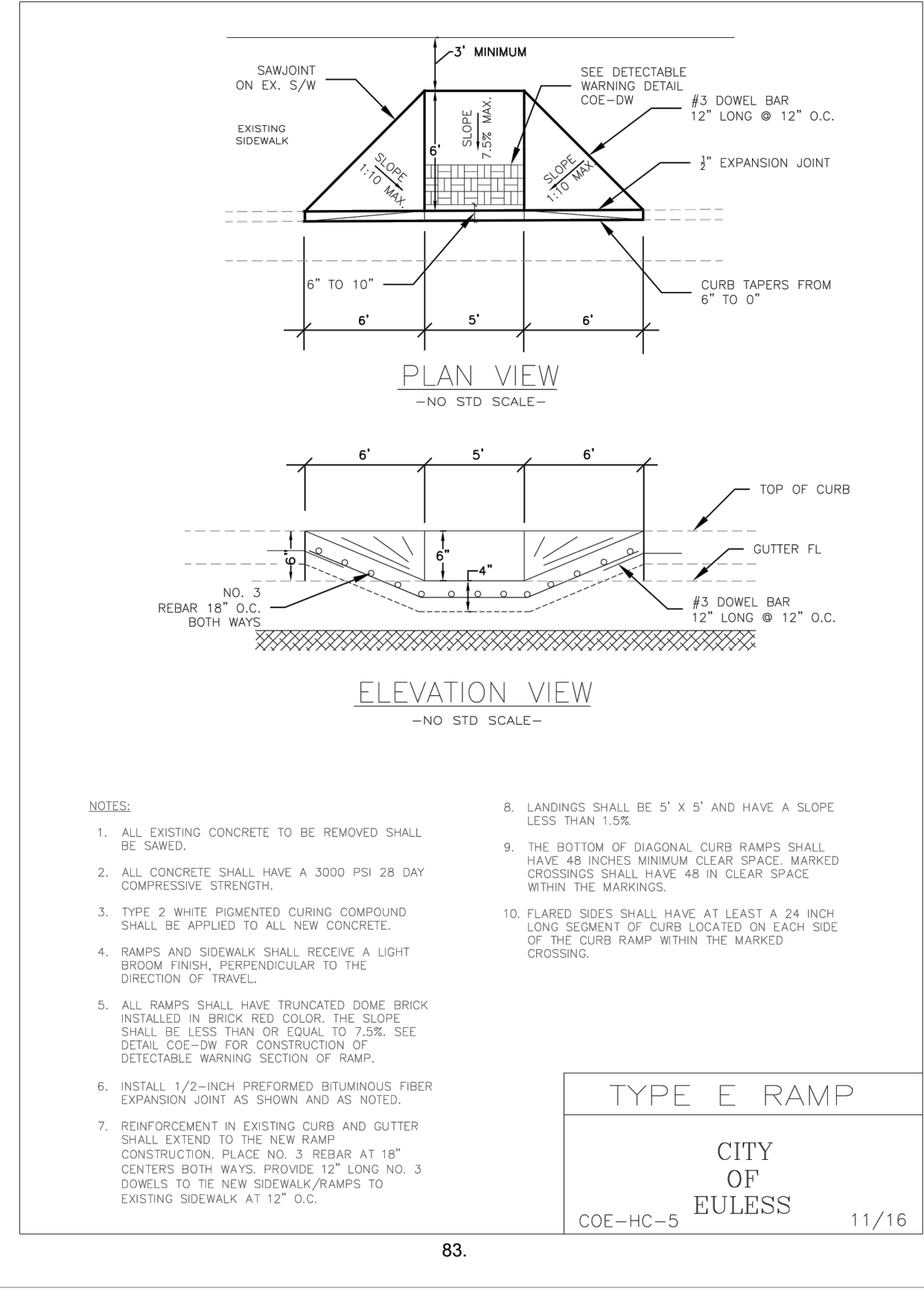
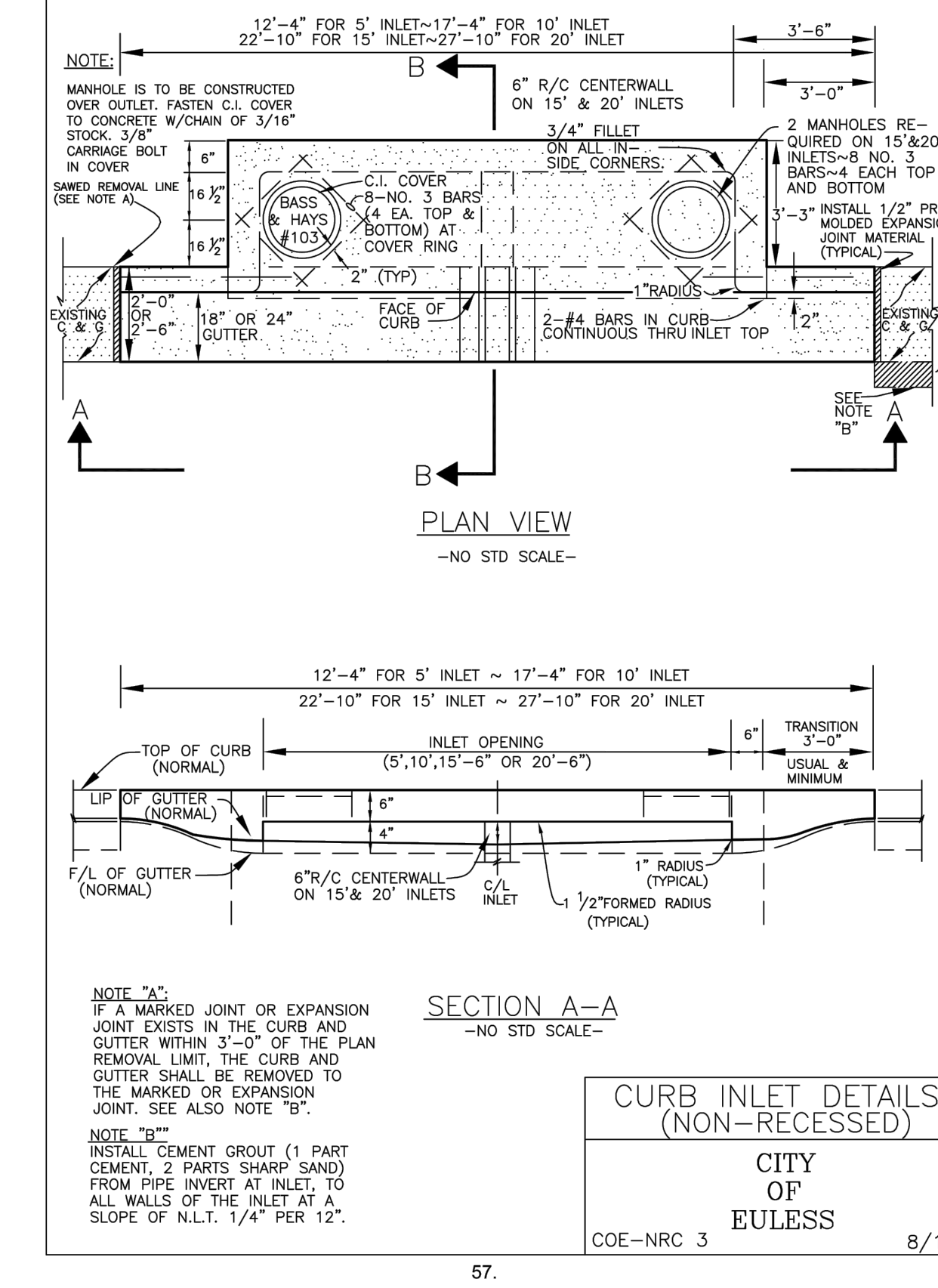
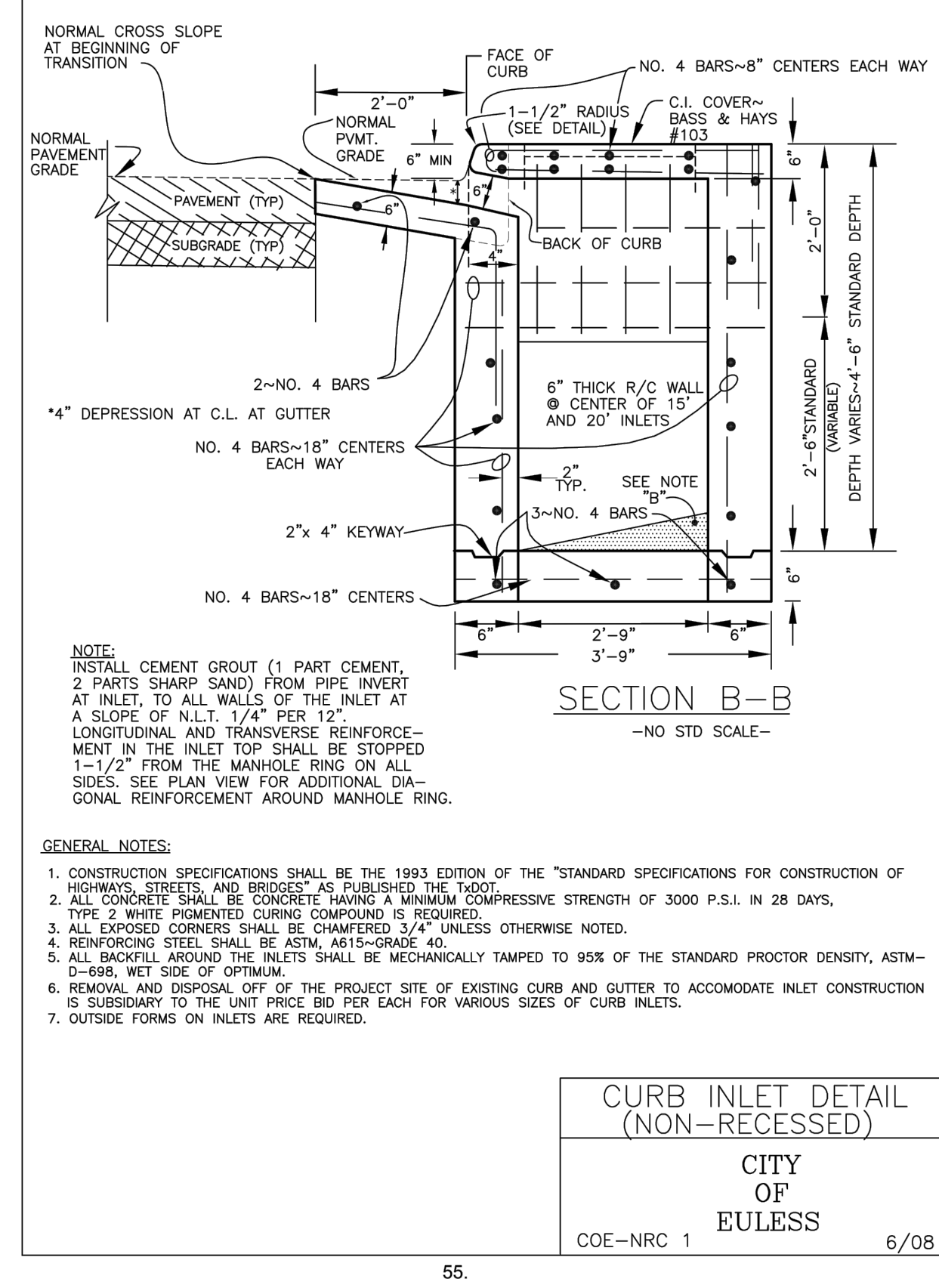
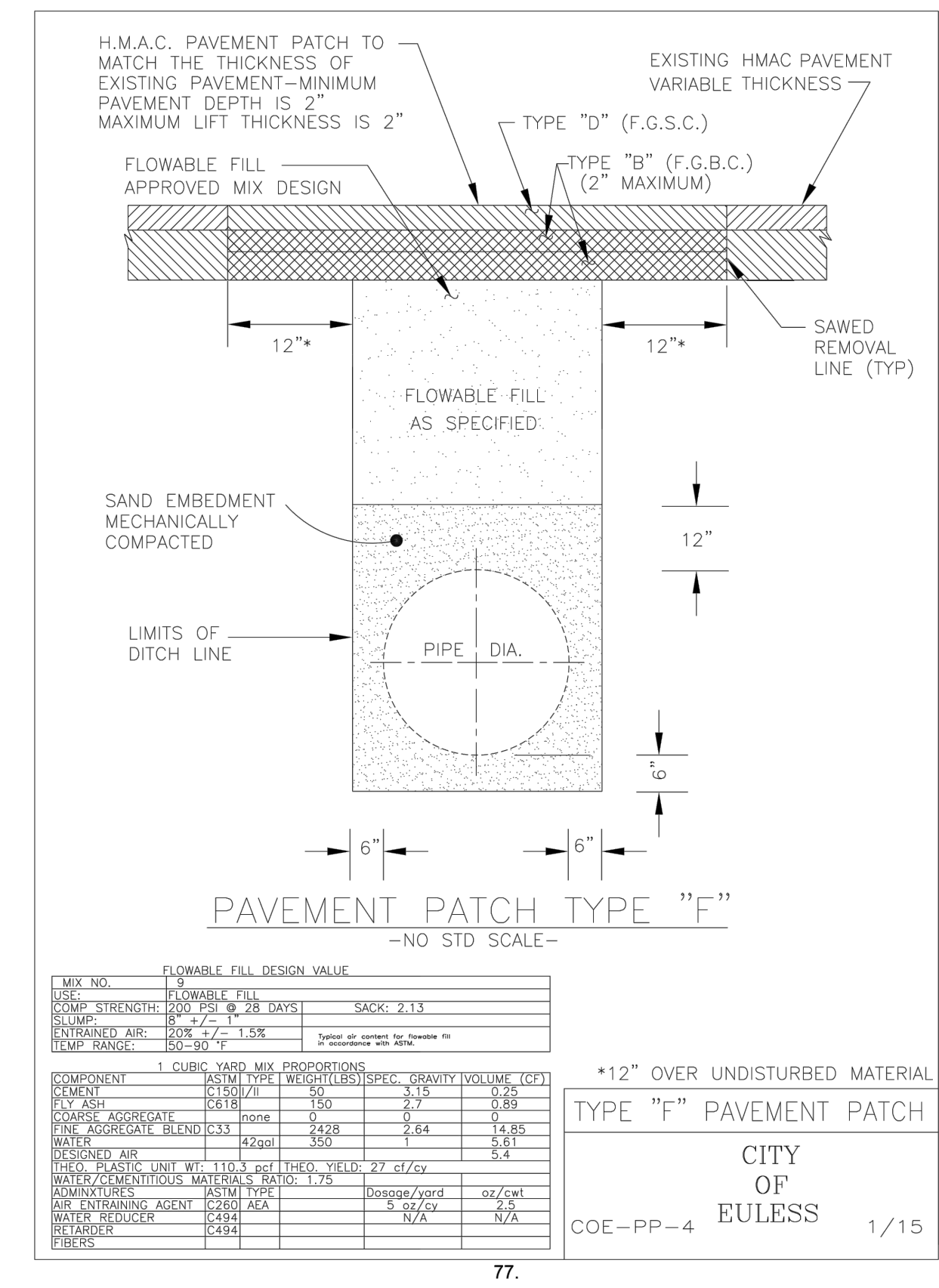
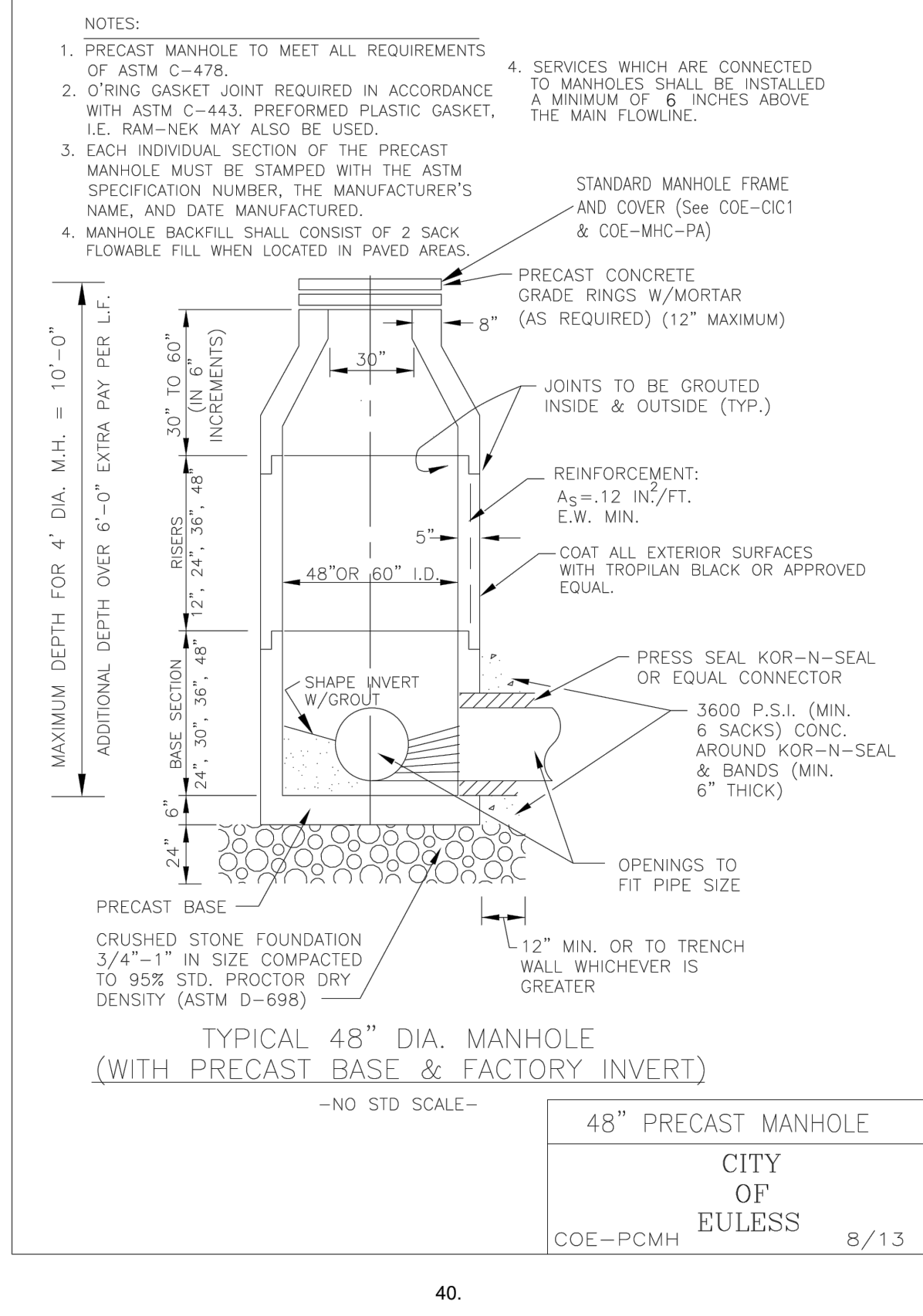
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 date
 MAY 2021

THE CITY OF EULESS

PRELIMINARY PLAN
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STANDARD DETAILS
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 PHASE-I
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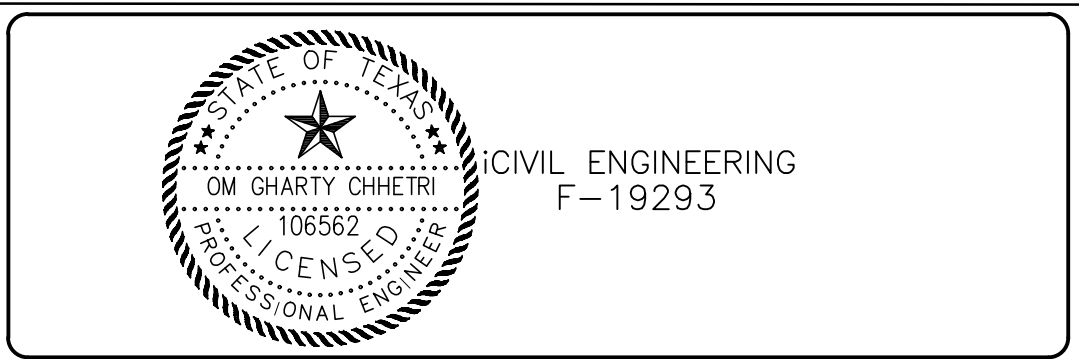
PROJECT NO.
 JN 1120



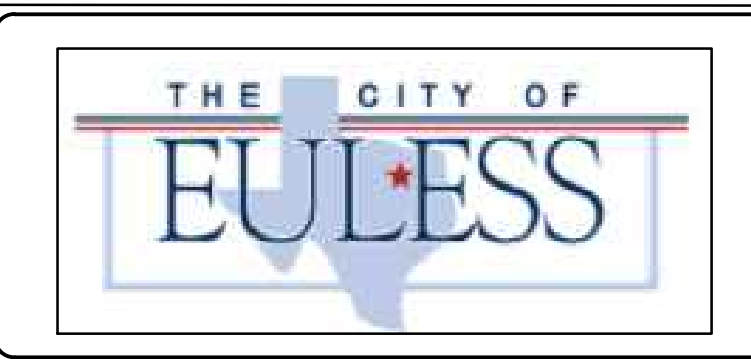
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MAY 2021



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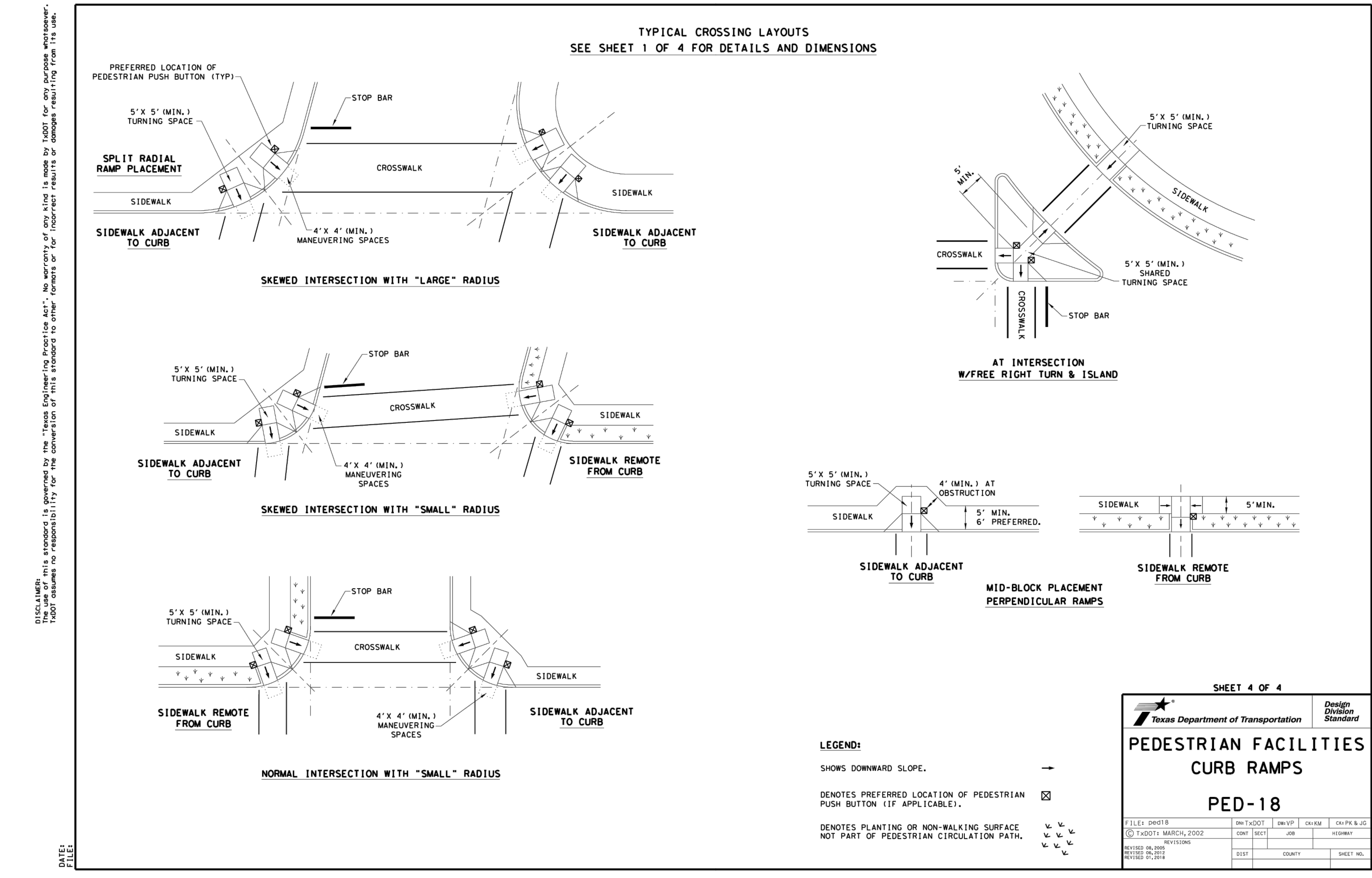
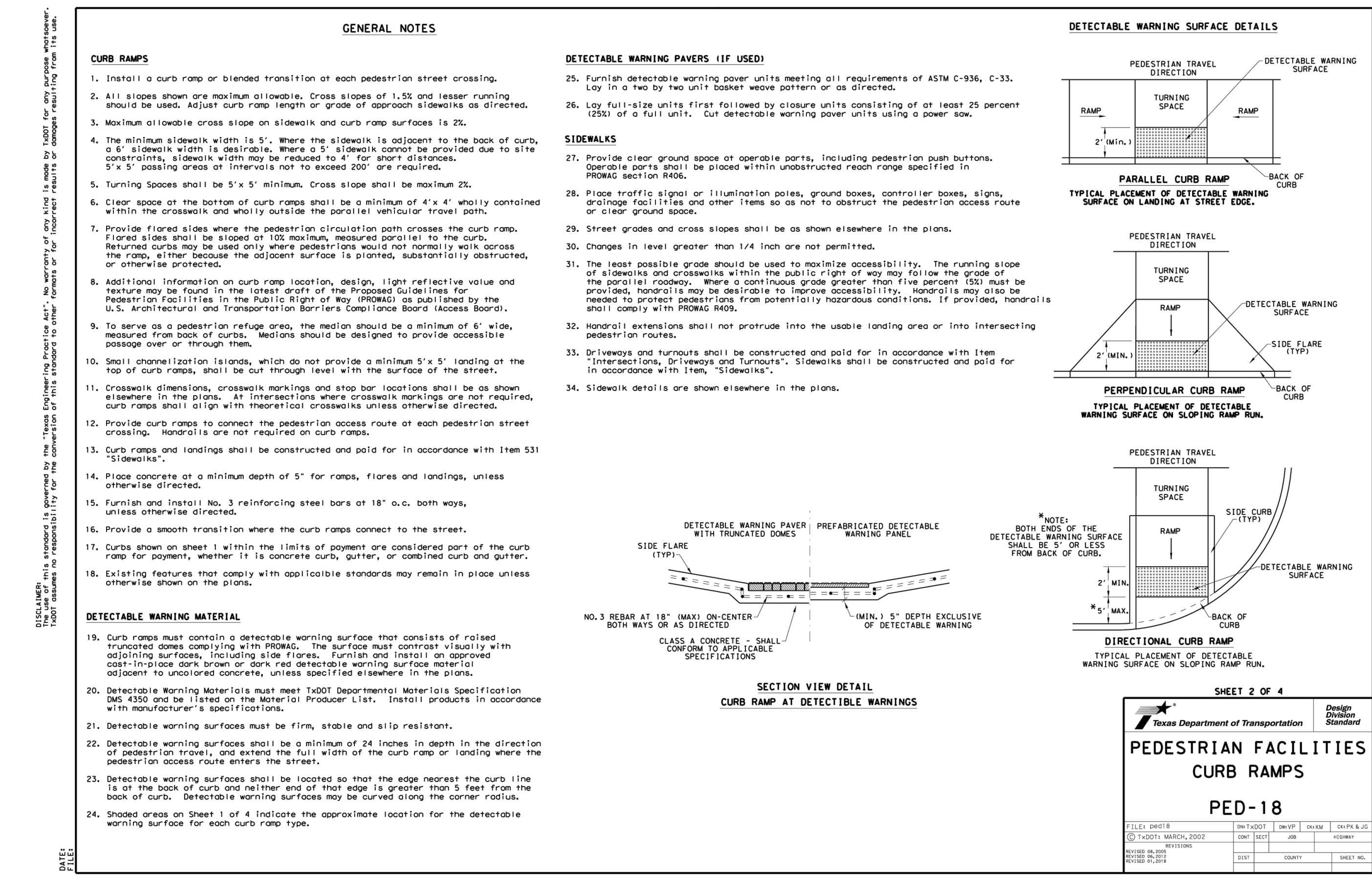
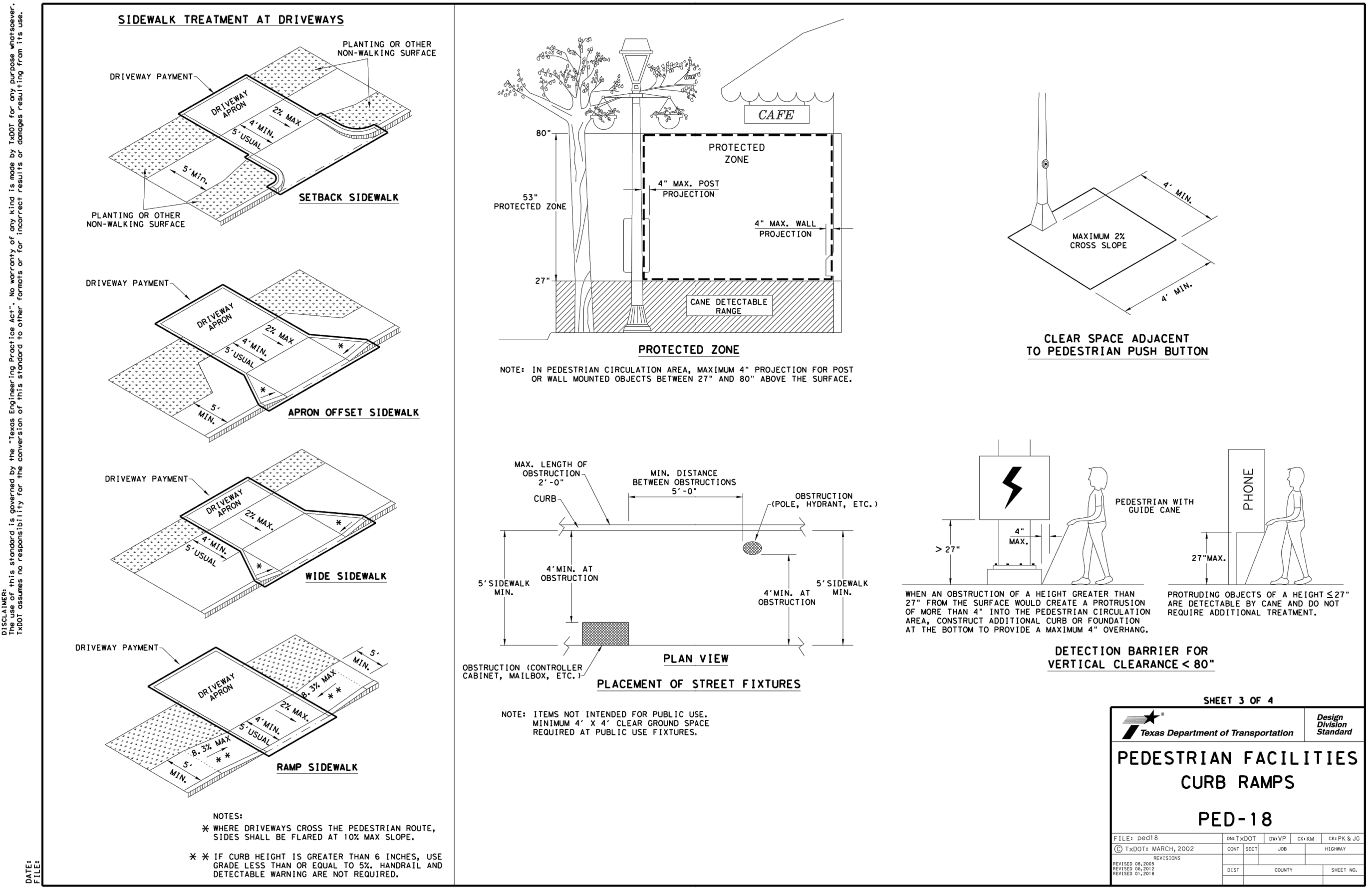
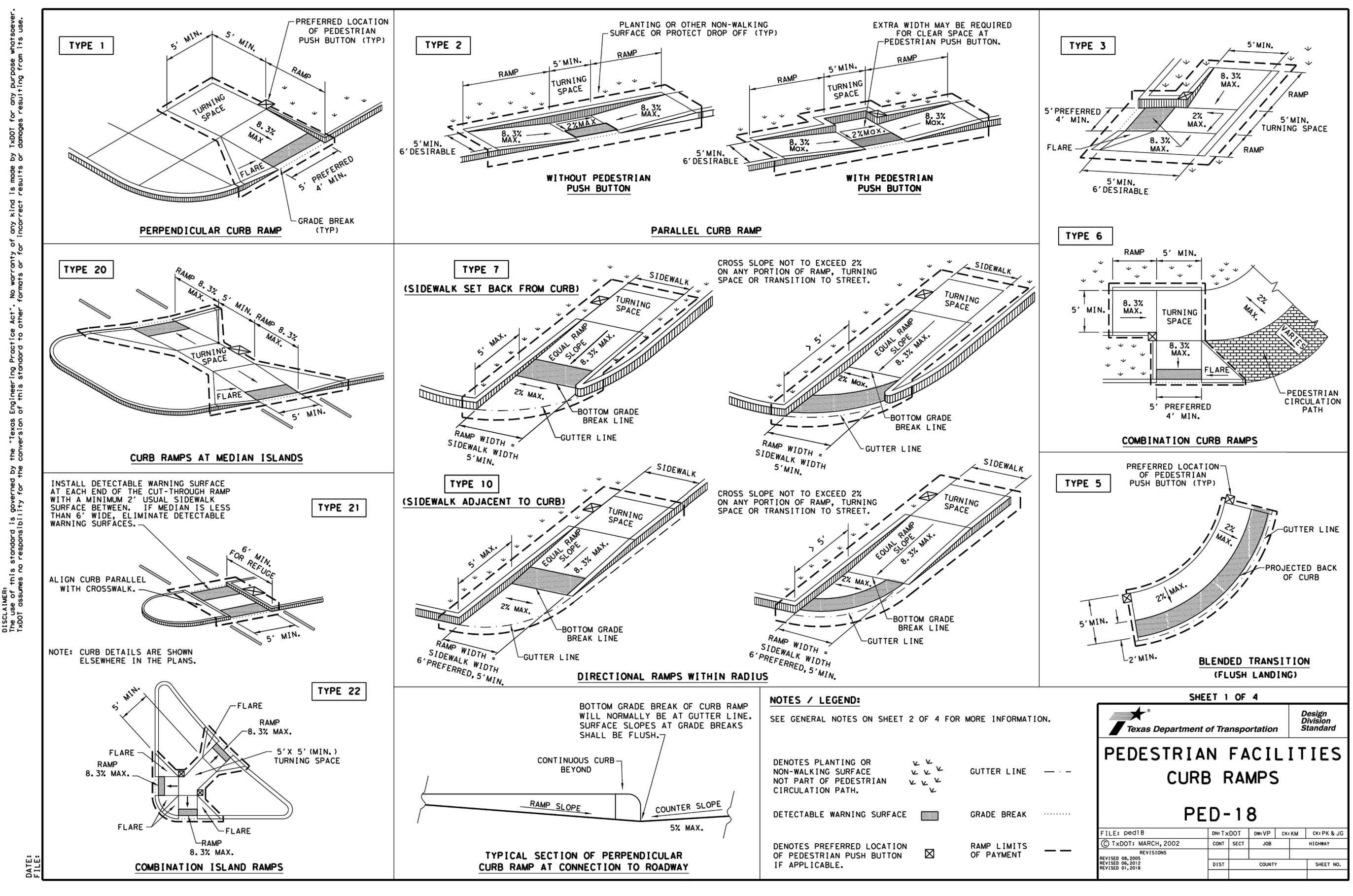
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STANDARD DETAILS

NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I

1212 ROYAL PARKWAY, EULESS TEXAS 76040

PROJECT NO.
JN 1120



no.	revision	by	date

ICIVIL ENGINEERING
202 REPUBLIC LN
EULESS, TX 76040
PH: (972) 523-5493
TBPE: F-19293

scale
horiz N/A
vert N/A
date
MAY 2021

PRELIMINARY PLAN
For Review Only

THE CITY OF
EULESS

STANDARD DETAILS

PROJECT NO
JN 1120

NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040

no. revision by date

scale
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MAY 2021

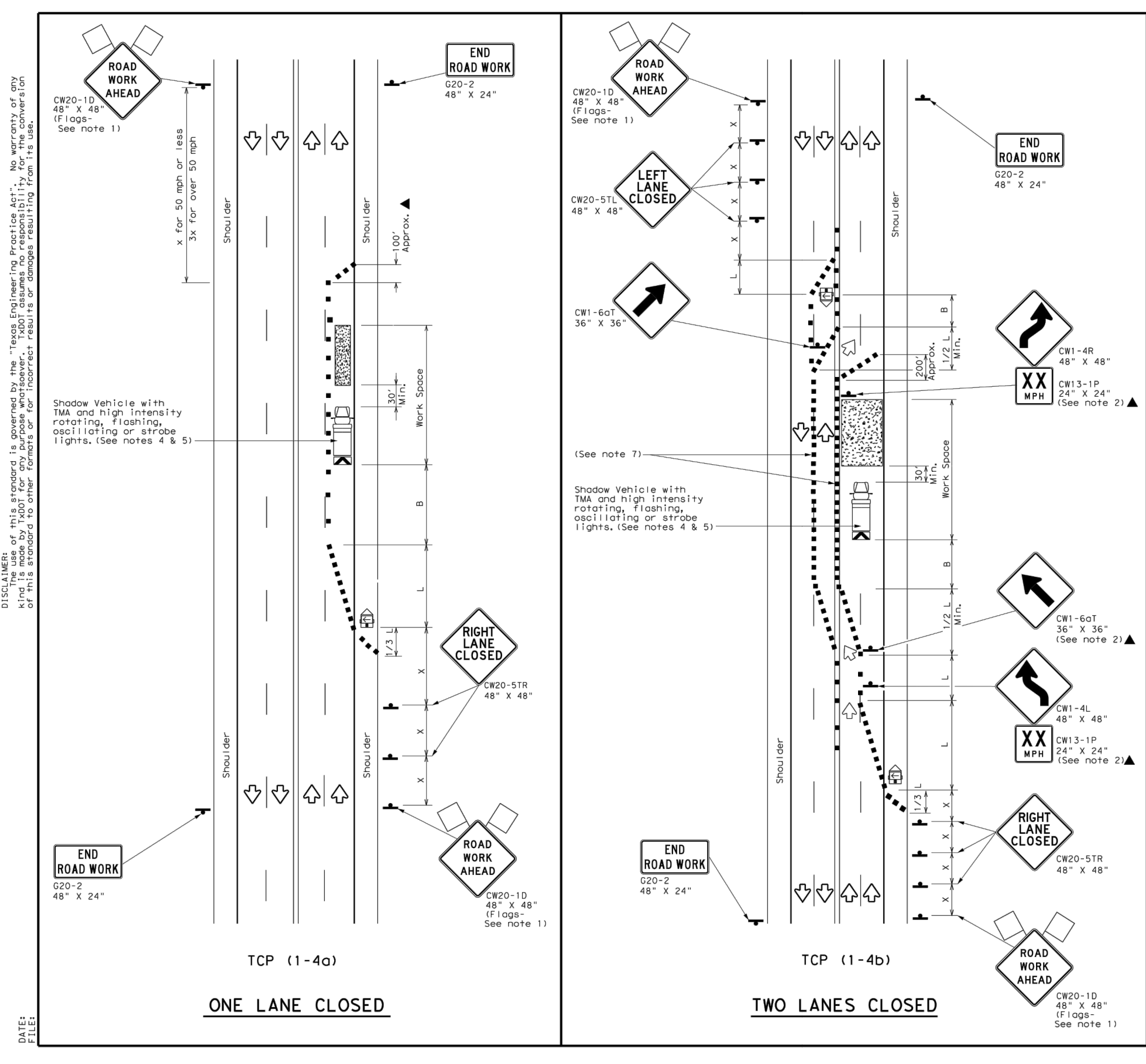
PRELIMINARY PLAN
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NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I
1212 ROYAL PARKWAY, EULESS TEXAS 76040



LEGEND

Channelizing Devices: Heavy Work Vehicle, Trailer Mounted Flashing Arrow Board, Sign, Flag

Channelizing Devices: Truck Mounted Attenuator (TMA), Portable Changeable Message Sign (PCMS), Traffic Flow, Flagger

Posted Speed (mph)	Formula	Minimum Desirable Taper Lengths (ft)	Suggested Maximum Spacing of Channelizing Devices (ft)	Minimum Sign Spacing (ft)	Suggested Longitudinal Buffer Space (ft)
30	$10' + \frac{11' - 10'}{100} (S - 30)$	150' 165' 180'	30'	60'	120'
35	$125' + \frac{125' - 125'}{100} (S - 35)$	205' 225' 245'	35'	70'	140'
40	$150' + \frac{150' - 150'}{100} (S - 40)$	265' 295' 320'	40'	80'	160'
45	$175' + \frac{175' - 175'}{100} (S - 45)$	330' 365' 395'	45'	90'	180'
50	$200' + \frac{200' - 200'}{100} (S - 50)$	400' 440' 480'	50'	100'	200'
55	$225' + \frac{225' - 225'}{100} (S - 55)$	475' 520' 565'	55'	110'	225'
60	$250' + \frac{250' - 250'}{100} (S - 60)$	550' 600' 650'	60'	120'	250'
65	$275' + \frac{275' - 275'}{100} (S - 65)$	625' 680' 735'	65'	130'	275'
70	$300' + \frac{300' - 300'}{100} (S - 70)$	700' 765' 825'	70'	140'	300'
75	$325' + \frac{325' - 325'}{100} (S - 75)$	775' 845' 915'	75'	150'	325'

TYPICAL USAGE

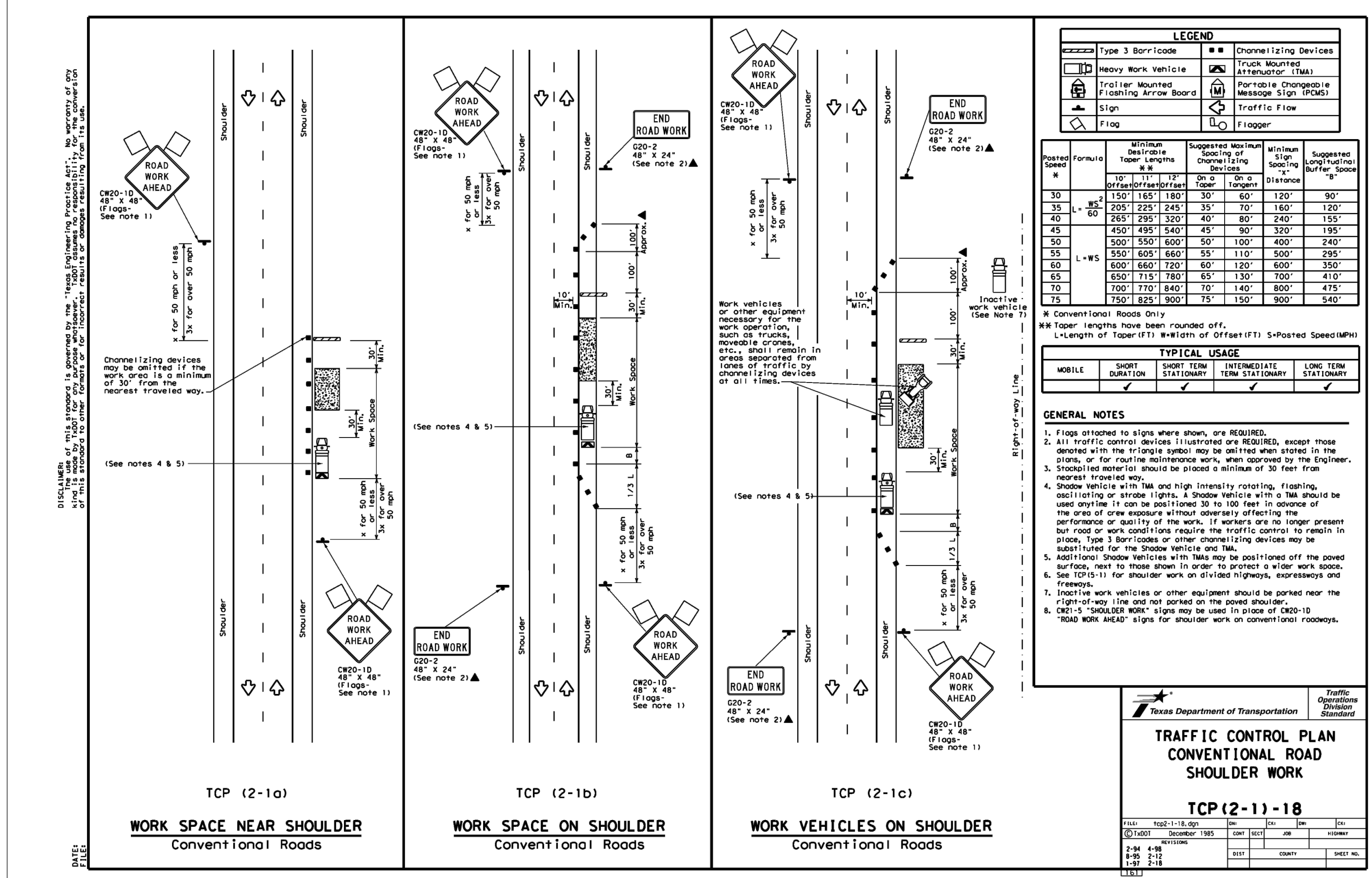
MOBILE	SHORT DURATION STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓	✓	✓	✓

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- The CWO-10 "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1000 feet.
- A shadow vehicle with TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional shadow vehicles with TMA may be positioned off the paved surface, next to those shown in order to protect wider work spaces.
- If this TCP is used for a left lane closure, CWO-5T, "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic in the drive lanes placed in the closed lane near the end of the taper.

TCP (1-4a)

TCP (1-4b)



LEGEND

Channelizing Devices: Heavy Work Vehicle, Trailer Mounted Flashing Arrow Board, Sign, Flag

Channelizing Devices: Truck Mounted Attenuator (TMA), Portable Changeable Message Sign (PCMS), Traffic Flow, Flagger

Posted Speed (mph)	Formula	Minimum Desirable Taper Lengths (ft)	Suggested Maximum Spacing of Channelizing Devices (ft)	Minimum Sign Spacing (ft)	Suggested Longitudinal Buffer Space (ft)
30	$10' + \frac{11' - 10'}{100} (S - 30)$	150' 165' 180'	30'	60'	120'
35	$125' + \frac{125' - 125'}{100} (S - 35)$	205' 225' 245'	35'	70'	140'
40	$150' + \frac{150' - 150'}{100} (S - 40)$	265' 295' 320'	40'	80'	160'
45	$175' + \frac{175' - 175'}{100} (S - 45)$	330' 365' 395'	45'	90'	180'
50	$200' + \frac{200' - 200'}{100} (S - 50)$	400' 440' 480'	50'	100'	200'
55	$225' + \frac{225' - 225'}{100} (S - 55)$	475' 520' 565'	55'	110'	225'
60	$250' + \frac{250' - 250'}{100} (S - 60)$	550' 600' 650'	60'	120'	250'
65	$275' + \frac{275' - 275'}{100} (S - 65)$	625' 680' 735'	65'	130'	275'
70	$300' + \frac{300' - 300'}{100} (S - 70)$	700' 765' 825'	70'	140'	300'
75	$325' + \frac{325' - 325'}{100} (S - 75)$	775' 845' 915'	75'	150'	325'

TYPICAL USAGE

MOBILE	SHORT DURATION STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
✓	✓	✓	✓

GENERAL NOTES

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated in the plans, or for routine maintenance work, when approved by the Engineer.
- Strooplight material should be placed a minimum of 30 feet from nearest traveled way.
- Shadow vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights, (see notes 4 & 5).
- Additional shadow vehicles with TMA may be positioned off the paved surface, next to those shown in order to protect a wider work space.
- Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- CWO-5 "SHOULDER WORK" signs may be used in place of CWO-10 "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

TCP (1-4)-18

TCP	TITLE	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
1-1	CONVENTIONAL ROAD SHOULDER WORK		✓	✓		
1-2	ONE-LANE TWO-WAY TRAFFIC CONTROL		✓	✓		
1-3	TRAFFIC SHIFTS ON TWO-LANE ROADS		✓	✓		
1-4	LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS		✓	✓		
1-5	LANE CLOSURES FOR DIVIDED HIGHWAYS		✓	✓		
1-6	AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS)		✓	✓		
2-1	CONVENTIONAL ROAD SHOULDER WORK	✓	✓	✓	✓	✓
2-2	ONE-LANE TWO-WAY TRAFFIC CONTROL		✓	✓	✓	
2-3	TRAFFIC SHIFTS ON TWO-LANE ROADS		✓	✓	✓	✓ (2-3d ONLY)
2-4	LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS		✓	✓	✓	
2-5	LONG TERM LANE CLOSURES MULTILANE CONVENTIONAL ROADS		✓	✓	✓	✓
2-6	LANE CLOSURES ON DIVIDED HIGHWAYS		✓	✓	✓	✓
2-7	DIVERSIONS AND NARROW BRIDGES		✓	✓	✓	✓
2-8	LONG TERM ONE-LANE TWO-WAY CONTROL		✓	✓	✓	✓
3-1	MOBILE OPERATIONS UNDIVIDED HIGHWAYS	✓				
3-2	MOBILE OPERATIONS DIVIDED HIGHWAYS	✓				
3-3	MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/REMOVAL	✓				
3-4	MOBILE OPERATIONS FOR ISOLATED WORK AREAS UNDIVIDED HIGHWAYS	✓				
3-5	MOBILE OPERATIONS HERBICIDE TRUCK OPERATIONS	✓				
5-1	SHOULDER WORK FOR FREEWAYS / EXPRESSWAYS		✓ (5-1a only)	✓ (5-1b only)	✓ (5-1b only)	
6-1	FREEWAY LANE CLOSURES		✓	✓	✓	
6-2	WORK AREA NEAR RAMP		✓	✓	✓	
6-3	WORK AREA BEYOND RAMP		✓	✓	✓	
6-4	WORK AREA AT EXIT RAMP		✓	✓	✓	
6-5	WORK AREA BEYOND EXIT RAMP		✓	✓	✓	
6-6	FREEWAY CLOSURE		✓	✓	✓	
6-7	SHORT DURATION FREEWAY CLOSURE SEQUENCE		✓	✓	✓	
6-8	WORK IN EXIT GORE FOR ADT GREATER THAN 10,000		✓	✓	✓	
6-9	WORK IN EXIT GORE FOR ADT LESS THAN 10,000		✓	✓	✓	
7-1	TRAFFIC CONTROL DETAILS FOR SURFACING OPERATIONS				✓	✓

MOBILE
Work that moves continuously or intermittently (stopping for up to approximately 15 minutes).

SHORT DURATION
Work that occupies a location up to 1 hour.

SHORT TERM STATIONARY
Daytime work that occupies a location for more than 1 hour in a single daylight period.

INTERMEDIATE TERM STATIONARY
Work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.

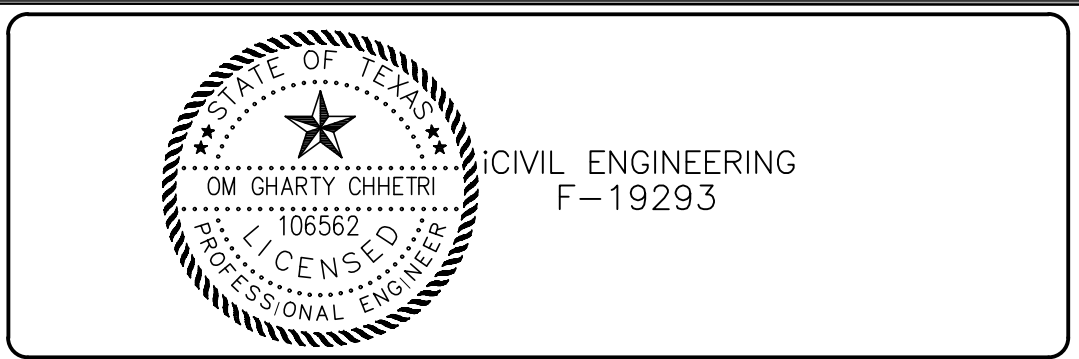
LONG TERM STATIONARY
Work that occupies a location more than 3 days.

NOTE
THIS SHEET IS A WORKSHEET FOR PLAN PREPARATION ONLY. IT IS NOT TO BE INCLUDED IN P, S, & E'S.

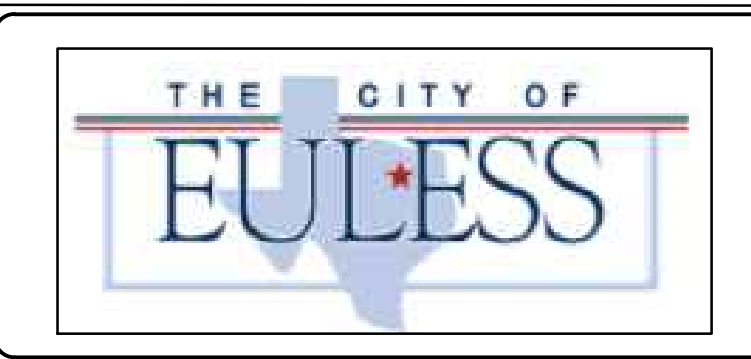
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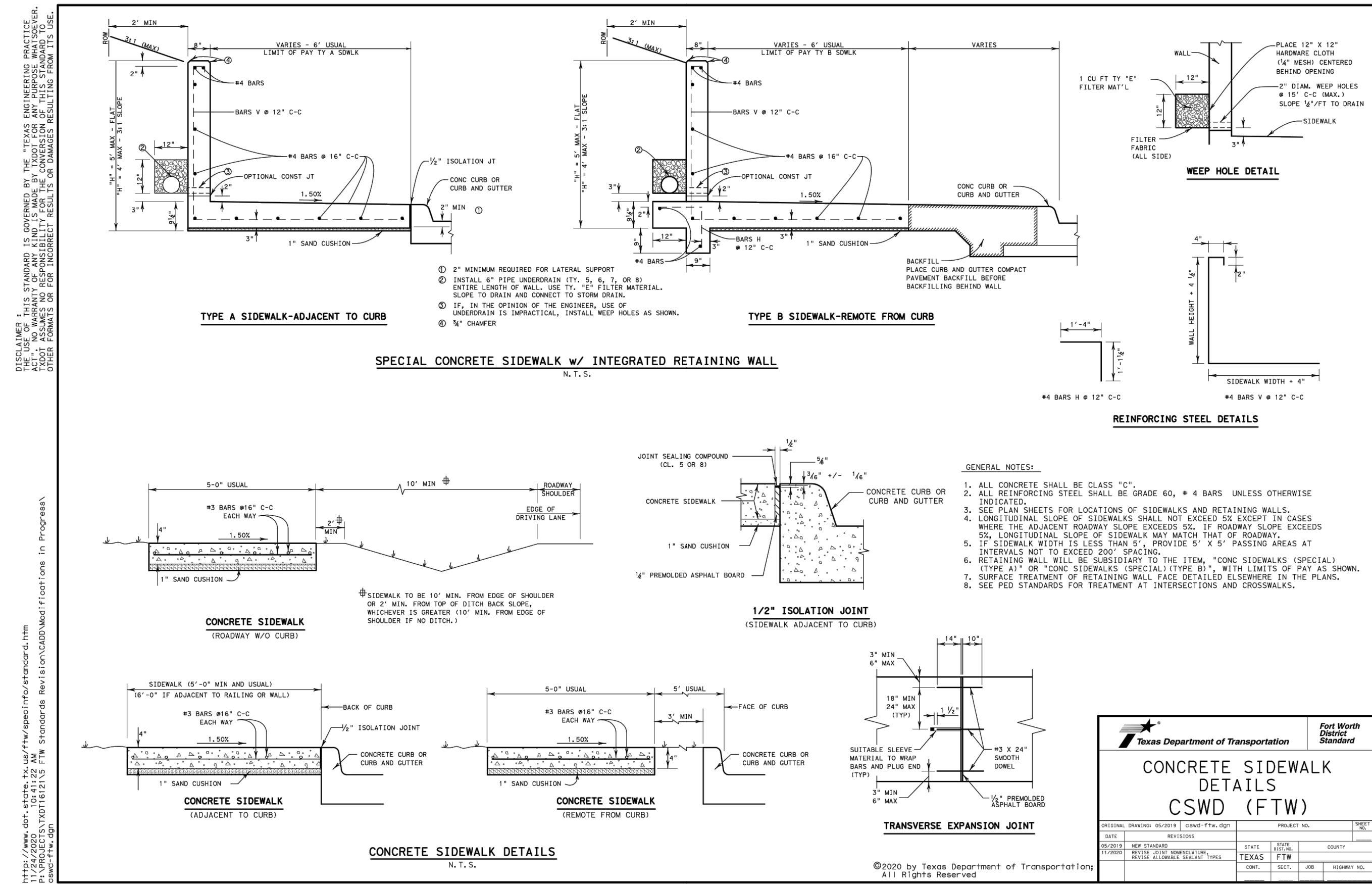
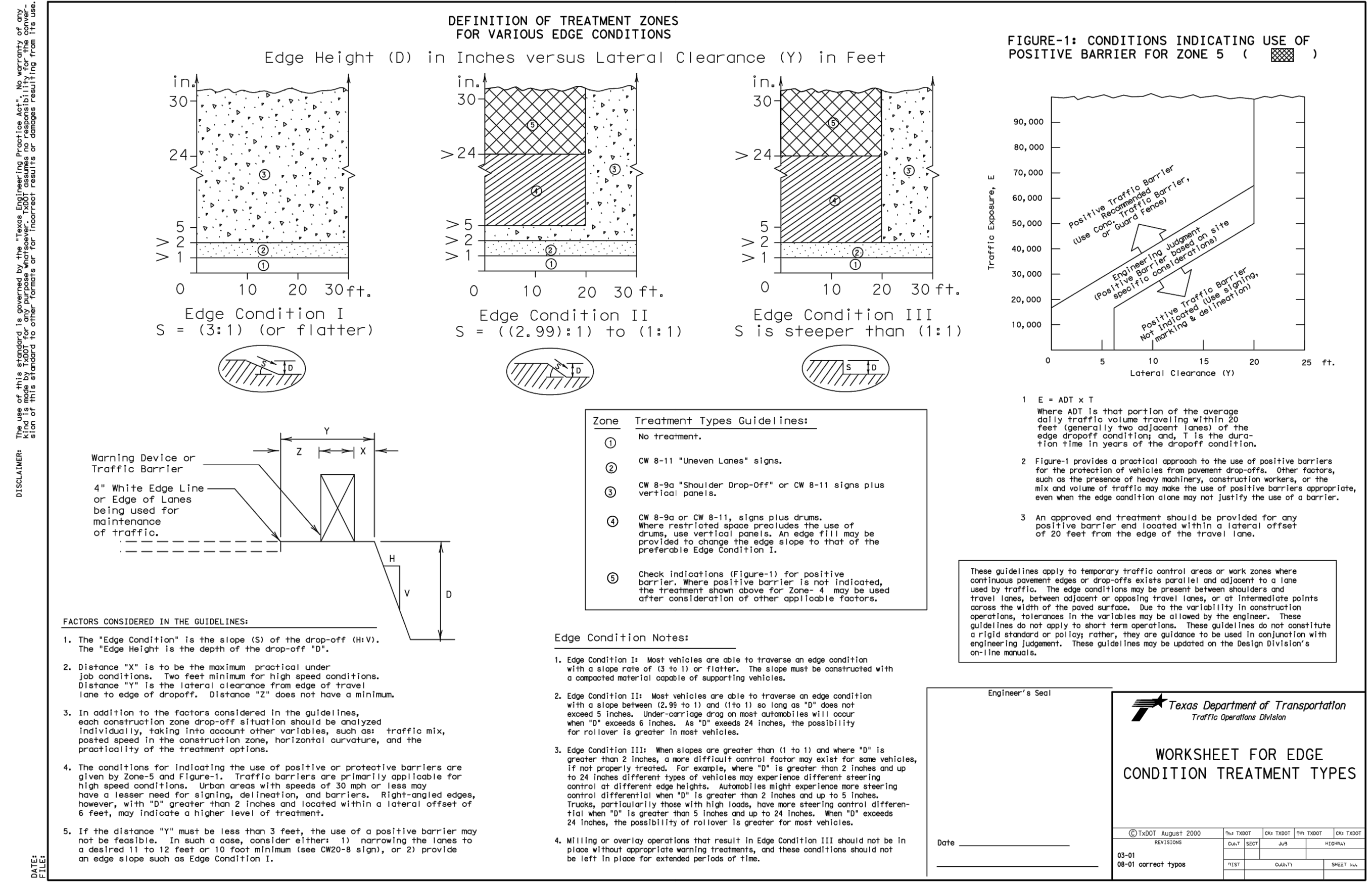
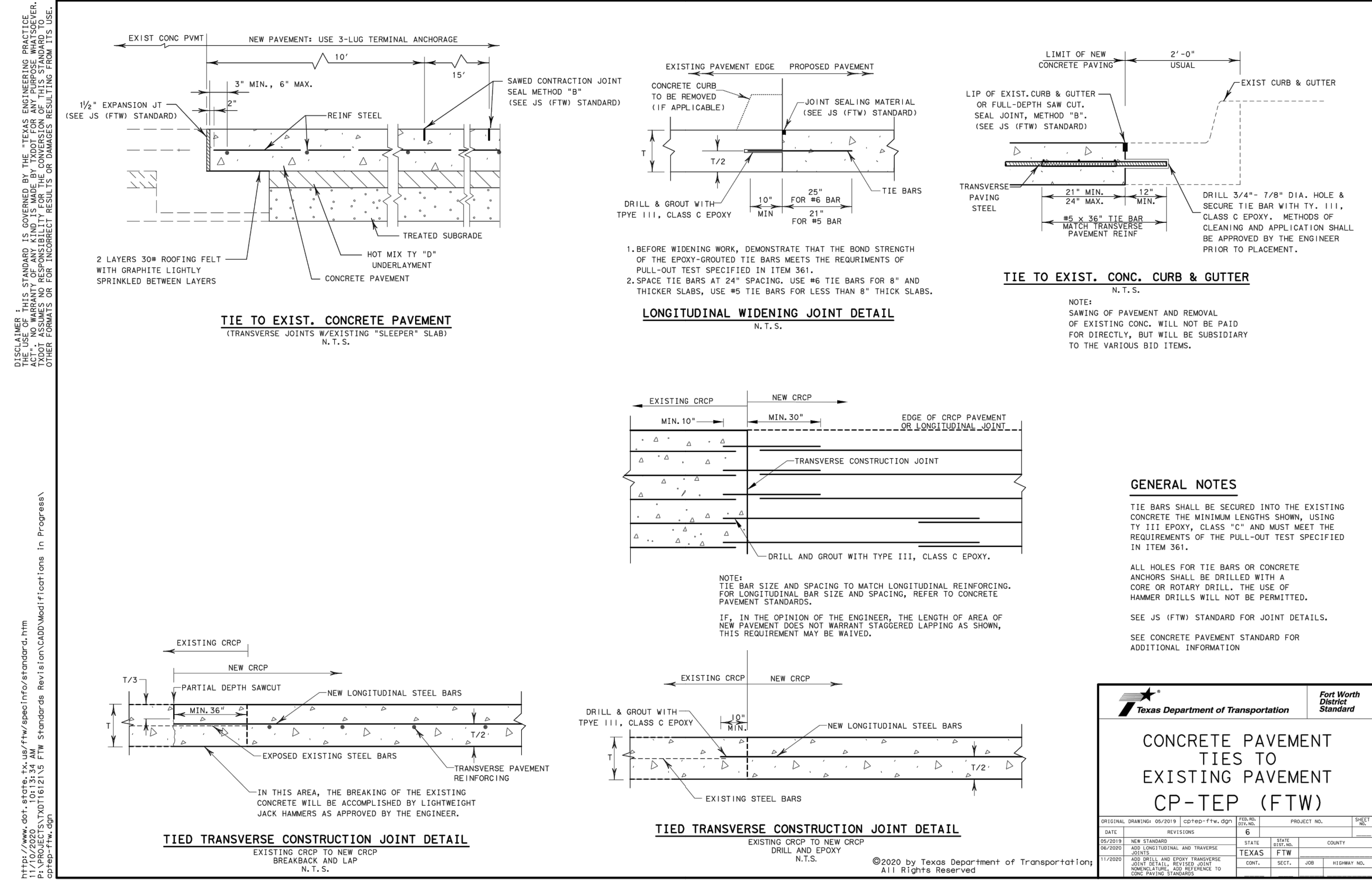
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STANDARD DETAILS

NEPALI CULTURAL AND SPIRITUAL CENTER
PHASE-I

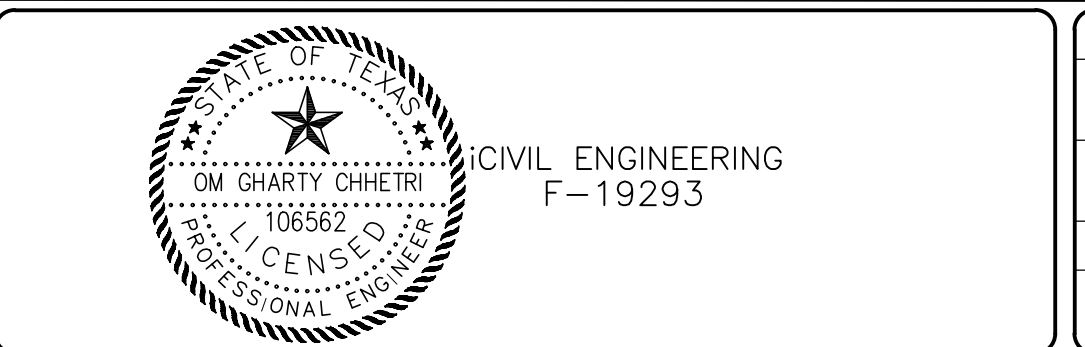
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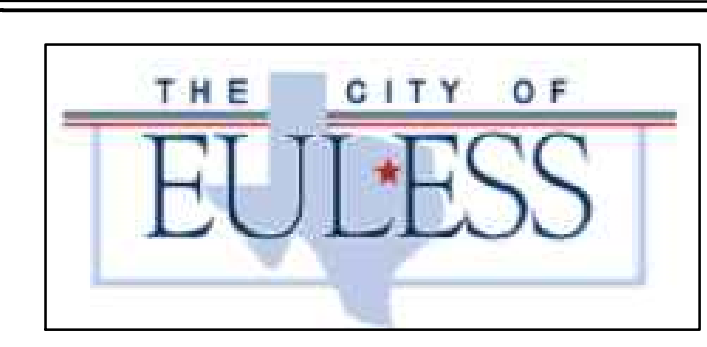


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