FOOTING, FOUNDATION & GEOTECH NOTES

- 1. FOUNDATION CONSTRUCTION SHALL COMPLY WITH LATEST EDITION OF THE ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315), LATEST EDITION.
- 2. FOUNDATION CONSTRUCTION AND GROUND TREATMENT TO COMPLY WITH GEOTECHNICAL STUDY PERFORMED FOR THIS PROJECT, DATED 27 JANUARY 2011. WHERE CONFLICT EXISTS BETWEEN GEOTECHNICAL STUDY AND SPECIFICATIONS FOUND ON DRAWINGS HEREIN, THEN GEOTECHNICAL STUDY SHALL GOVERN, WITHOUT EXCEPTION
- 3. DESIGN STRENGTHS

Α.	COMPRESSIVE STRENGTH (28 DAY) (REF	ER TO TABLE 4.3.1 OF ACI 318 FOR	R DEFINITION OF HIGH-SULFATE / SALT F	EXPOSURE)
		NEGLIGIBLE SULFATE EXPOSURE	MODERATE SULFATE EXPOSURE	SEVERE SULFATE EXPOSURE
	FOOTINGS & INTERIOR SLABS:	f'c = 2,500 PSI	f'c = 4,000 PSI	f'c = 4,500 PSI
	FLATWORK EXPOSED TO WEATHER	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 4,500 PSI
	ALL OTHER:	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 4,500 PSI
В.	REINFORCING: #4 AND LARGER GRA	ADE 60		

4. CONCRETE

- A. CONCRETE EXPOSED TO NORMAL WEATHER AND NEGLIGIBLE SULFATE EXPOSURE SHALL BE MINIMUM 3,000 PSI 28-DAY STRENGTH, WITH 5-7% AIR ENTRAINMENT BY VOLUME. ALL CONCRETE SUBJECT TO FREEZING DURING CONSTRUCTION OPERATIONS SHALL HAVE SIMILAR AIR ENTRAINMENT. SLABS PLACED IN SPACES TO BE HEATED SHALL HAVE 6 MIL.
- POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6 INCHES, PLACED BETWEEN CONCRETE FLOOR AND BASE COURSE OR PREPARED SUBGRADE. B. CONCRETE EXPOSED TO SIGNIFICANT SULFATE—CONTAINING SOLUTIONS AND MATERIALS. -- MODERATE EXPOSURE TO SULFATES. USE f'c = 4,000 PSI FOR ALL CONCRETE WORK; MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO BY WEIGHT - 0.50; AND TYPE II,
- IP(MS), P(MS), I(PM)(MS), I(SM)(MS) CEMENT.
- -- SEVERE TO VERY SEVERE EXPOSURE TO SULFATES. USE f'c = 4,500 PSI FOR ALL CONCRETE WORK; MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO BY WEIGHT = 0.45; AND
- C. CONCRETE COVER. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS WITH MINIMUM COVER OF ONE BAR DIAMETER, UNO:

78 99

- CONCRETE CAST AGAINST EARTH 3 INCHES - CONCRETE TO BE IN CONTACT WITH EARTH OR WEATHER
- -- BARS GREATER THAN #5 2 INCHES -- BARS #5 OR LESS - 1-1/2 INCH
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER

TOP BARS

-- SLABS, WALLS - 1 INCH -- BEAMS, COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS - 1-1/2 INCH

GRADE 40

D. BAR LAP SPLICES AND EMBEDMENT LENGTH - DOWELS SHALL BE THE SAME SIZE AND SPACING AS BARS WITH WHICH THEY ARE LAPPED UNLESS OTHERWISE NOTED

59

GRADE 40 OR 60 REINFORCEMENT - LENGTH IN INCHES BAR SIZE #3 #4 #5 REGULAR BARS 24 24 24 #6 #7 #8 #9 34 46 60 76 #10 97 119

24 26 31 44

- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN A SINGLE POUR BELOW THE BAR. ADD 25% TO ALL LAP SPLICES FOR BAR SPACING LESS THAN 6".
- STANDARD HOOKS. BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO THE REQUIREMENTS OF TABLE 1 OF ACI-315. TIES. WHERE ANCHOR BOLTS ARE PLACED IN THE TOP OF COLUMNS OR PEDESTALS, THE BOLTS SHALL BE ENCLOSED BY LATERAL REINFORCEMENT THAT ALSO SURROUNDS AT LEAST FOUR VERTICAL BARS OF THE COLUMN OR PEDESTAL. THE LATERAL REINFORCEMENT SHALL BE DISTRIBUTED WITHIN 5 INCHES OF THE TOP OF THE COLUMN OR PEDESTAL,
- AND SHALL CONSIST OF AT LEAST TWO #4 BARS OR THREE #3 BARS. REFERENCE ACI 318-05, PARA 7.10.5. G. ALL REINFORCEMENT IS TO BE PLACED IN THE CENTER OF WALLS, UNLESS NOTED OTHERWISE ON DRAWINGS. H. ALL REINFORCEMENT @ OPENINGS IS TO BE PLACED WITHIN 2" OF THE OPENINGS AND EXTEND A MINIMUM OF 24" BEYOND THE EDGE OF THE OPENING.

126

- 5. WATERPROOF ENTIRE EXTERIOR OF FOUNDATION SURFACE BELOW GRADE WITH 2 COATS OF ASPHALT EMULSION.
- 6. COMPACTION OPERATIONS. USE OF HEAVY TRACTOR-TOWED ROLLER COMPACTION EQUIPMENT IS NOT PERMITTED WITHIN 5 FEET OF WALLS. ANY EARTH FILL TO SUPPORT CONCRETE FLOORS, WALKS, DRIVEWAYS, ETC., MUST BE COMPACTED TO 95% PRIOR TO CONSTRUCTION. NO STUMPS, ROOTS, OR ORGANIC MATERIAL SHALL BE PRESENT IN SOIL AT THE AREA OF
- 7. ALUMINUM. WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY SURFACES, CONTACT SURFACES SHALL BE COATED WITH HEAVY ALKALI-RESISTANT BITUMINOUS PAINT.
- 8. STEEL. SHALL CONFORM TO SPECIFICATIONS AND STANDARDS PRESENTED IN THE 9TH EDITION OF AISC STEEL CONSTRUCTION MANUAL. STRUCTURAL STEEL SHALL BE AS SPECIFIED ABOVE. ANCHOR BOLTS SHALL BE F1554 GR. 36. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH AISC AND AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. SPECIAL INSPECTION AS REQUIRED BY CODE.
- 9. TERMITE PROTECTION. PROVIDE TERMITE PROTECTION IN ALL IBC REQUIRED AREAS PRIOR TO CONSTRUCTION.
- 10. CONSTRUCTION MATERIAL AND DEBRIS SHALL BE SECURED AT ALL STAGES OF CONSTRUCTION TO PREVENT TRAVELING FROM JOB SITE. CONSTRUCTION MATERIALS AND DEBRIS SHALL
- 14. REMOVALS. UNSUITABLE SOILS AND VEGETATION SHOULD BE REMOVED FROM BELOW FOUNDATION, FLOOR SLABS, EXTERIOR CONCRETE FLATWORK AND ASPHALT PAVEMENT AREAS. LOOSE ASPHALT SHOULD BE COMPLETELY REMOVED TO RECEIVE NEW CONSTRUCTION.
- 15. FILL MATERIAL. THE EXISTING SANDY FILL SOILS GENERALLY APPEAR SUITABLE FOR USE AS STRUCTURAL FILL, PROVIDED DEBRIS AND LARGER GRAVEL / COBBLE PARTICLES ARE REMOVED PRIOR TO USE. NATIVE CLAY AND SILT SOILS ARE NOT SUITABLE FOR USE AS STRUCTURAL FILL, BUT MAY BE STOCKPILED FOR USE AS FILL IN LANDSCAPE AREAS. STRUCTURAL FILL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS.

MAXIMUM PARTICLE SIZE PERCENT RETAINED ON THE 3/4 INCH SIEVE (COARSE GRAVEL) PERCENT PASSING NO. 200 SIEVE (FINES) LIQUID LIMIT OF FINES PLASTICITY INDEX OF FINES	4 INCH 30 PERCENT MAXIMUM 15 PERCENT MAXIMUM 35 PERCENT MAXIMUM 15 MAXIMUM
--	--

IN SOME SITUATIONS, PARTICLES LARGER THAN 4 INCHES AND / OR MORE THAN 30 PERCENT COARSE GRAVEL MAY BE ACCEPTABLE, HOWEVER, COMPACTION AND COMPACTION TESTING MAY BE MORE DIFFICULT. AS A RESULT, MORE STRICT QUALITY CONTROL MEASURES THAN NORMALLY USED MAY BE REQUIRED. SUCH MEASURES MAY INCLUDE USING THINNER LIFTS, AND INCREASED OR FULL-TIME OBSERVATION OF FILL PLACEMENT. UTILITY TRENCHES BELOW BUILDING AND PAVEMENTS SHOULD BE BACKFILLED WITH STRUCTURAL FILL; USE NATIVE SOILS IN OTHER LOCATIONS. SEE REPORT FOR OTHER SPECIFIC FILL REQUIREMENTS.

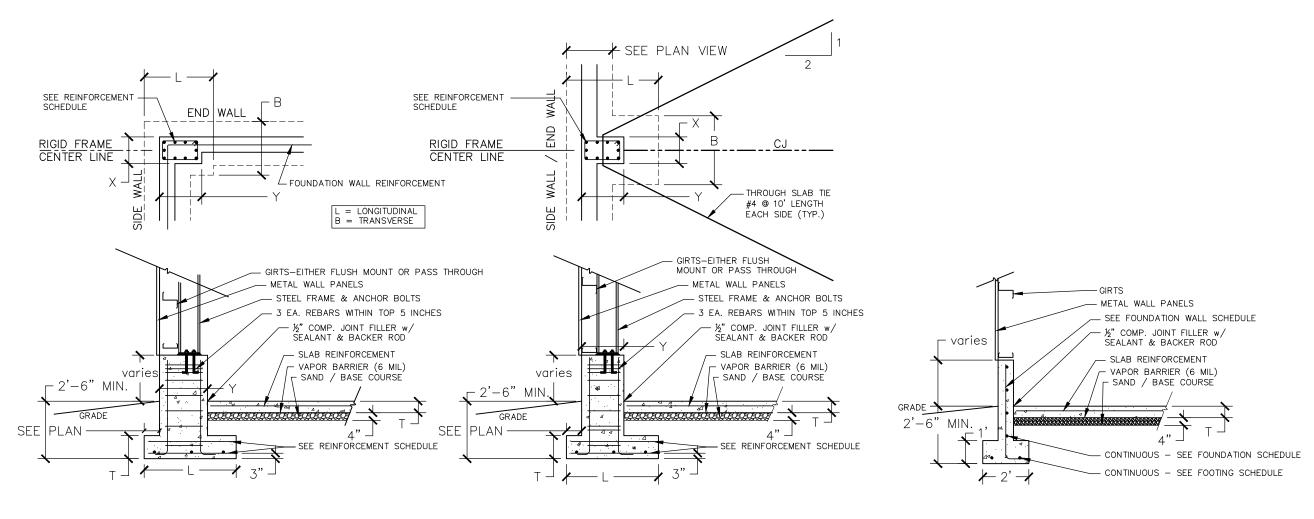
FILL IN SUBMERGED AREAS SHOULD CONSIST OF FREE DRAINING GRANULAR MATERIAL (SAND AND/OR GRAVEL) MEETING THE FOLLOWING REQUIREMENTS:

AXIMUM PARTICLE SIZE	3 INCH
ERCENT PASSING NO. 10 SIEVE	25 MAXIMUM
ERCENT PASSING NO. 40 SIEVE	15 MAXIMUM
ERCENT PASSING NO. 200 SIEVE (FINES)	5 MAXIMUM

16. FILL PLACEMENT AND COMPACTION. THICKNESS OF EACH LIFT SHALL BE APPROPRIATE FOR THE COMPACTION EQUIPMENT USED. RECOMMEND A MAXIMUM LIFT THICKNESS OF 4 INCHES FOR HAND OPERATIONS, 6 INCHES FOR MOST "TRENCH COMPACTORS", AND 8 INCHES FOR LARGER ROLLERS, UNLESS IT CAN BE DEMONSTRATED BY IN-PLACE DENSITY TESTS THAT THE REQUIRED COMPACTION CAN BE OBTAINED THROUGHOUT A THICKER LIFT. THE FULL THICKNESS OF EACH LIFT OF STRUCTURAL FILL PLACED SHOULD BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D-1557:

IN LANDSCAPE AREAS NOT SUPPORTING STRUCTURAL LOADS 90 PERCENT LESS THAN 5 FEET OF FILL BELOW FOUNDATIONS, FLATWORK AND PAVEMENTS 95 PERCENT FIVE OR MORE FEET OF BILL BELOW FOUNDATIONS, FLATWORK AND PAVEMENTS 98 PERCENT

GENERALLY, PLACING AND COMPACTING FILL AT A MOISTURE CONTENT WITH 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY ASTM D-1557, WILL FACILITATE COMPACTION. TYPICALLY, THE FURTHER THE MOISTURE CONTENT IS FROM OPTIMUM THE MORE DIFFICULT IT WILL BE TO ACHIEVE THE REQUIRED COMPACTION. FILL SHOULD BE TESTED FREQUENTLY DURING PLACEMENT AND EARLY TESTING IS RECOMMENDED TO DEMONSTRATE THAT PLACEMENT AND COMPACTION METHODS ARE ACHIEVING THE REQUIRED COMPACTION. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT FILL MATERIALS AND COMPACTION EFFORTS ARE CONSISTENT SO THAT TESTED AREAS ARE REPRESENTATIVE OF THE ENTIRE AREA TO BE FILLED.



IN-LINE SPOT FOOTING ASSEMBLIES (TYP.)

CONTINUOUS FOOTING DETAIL (TYP.)

= 2500 PSI SPOT FOOTING SCHEDULE								
YPE	DI B	MENSI L	ON	REINFORC TOP LONGITUDINAL	EMENT BOTTOM_LONGITUDINAL	BOTTOM TRANSVERSE		
P1	48"	48"	12"	NONE	4 #3 @ 14" O.C.	4 #3 @ 14" O.C.		
P2	36"	36"	12"	NONE	3 #3 @ 15" O.C.	3 #3 @ 15" O.C.		
Р3	30"	30"	12"	NONE	3 #3 @ 12" O.C.	3 #3 @ 12" O.C.		
P4	60"	54"	12"	1 #4 at center	6 #4 @ 10" O.C.	4 #4 @ 16" O.C.		
P5	84"	66"	12"	1 #4 at center	11 #4 @ 7" O.C.	5 #4 @ 15" O.C.		
P6								
P7								
P8								
P9								

fc = 3000 P																										
STEEL AT OPENINGS	fc = 2500 PSI SPREAD FOOTING SCHEDULE fy = 60000 PSI																									
2-#4 BAR	NFORCING	SE REII	GTHWIS	LEN	FORCING	REIN	SSWISE	CRO	THICK	IDTH LENGTH	LENGTH	WIDTH	MARK													
ТО	Spacing	Length	Size	No.	Spacing	Length	Size	No.	ITTICK	THICK	ITTION	LLINGIII	WIDIII	WIDIII	WIDIII	WIDIII	**10111	WIDIII	WIDIII	WIDTH	WIDTH	1110 1111	11101111	***************************************	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MARK
1-#4 BAR EACH	12" O.C.	CONT	#4	2					9"	CONT	18"	F-18														
1-#4 BAR	14" O.C.	CONT	#4	2					10"	CONT	20"	F-20														
ВОТТО	18" O.C.	CONT	#4	2					12"	CONT	24"	F-24														
	12" O.C.	CONT	#4	3					12"	CONT	30"	F-30														
	10" O.C.	CONT	#4	4					14"	CONT	36"	F-36														

Α	20"	24"	12 #6 bars placed 4x4 bars on each side #4 @ 12" O.C.
В	20"	20"	10 #6 bars placed 4x3 bars on each side #4 @ 12" O.C.
С	22"	24"	12 #6 bars placed 4x4 bars on each side #4 @ 12" O.C.
D			
E			
F			
G			
Н			
fc = 3000) PSI	FO	UNDATION WALL SCHED. fy=60000 PSI

REINFORCEMENT

		fc = 3000 PSI FOUNDATION WALL SCHED. fy=6000							
		STEEL AT OPENINGS ^{7,9}	HORIZONTAL STEEL 4	VERTICAL STEEL 3,4	MIN. THICKNESS	TOP EDGE SUPPORT ²	MAX. HEIGHT		
	Ī	2-#4 BARS	3-#4 BARS	#4 @ 32"		NONE	2 FT		
		TOP	4-#4 BARS	#4 @ 32 "	8"	NONE	4 FT		
		1-#4 BAR EACH SIDE	5-#4 BARS	#4 @ 24"		FLOOR OR	6 FT		
		1-#4 BAR	6-#4 BARS	#+ 9 2+		ROOF	8 FT		
		ВОТТОМ	7-#4 BARS	#4 @ 16"		DIAPHRAGM	9 FT		
1		ENGINEERING REQUIRED							

1. ANCHOR BOLTS. TO BE SET IN CONCRETE FOUNDATION COLUMNS.

1.1. PRE-SET. USE HEAVY HEX BOLTS, SIMPSON OR EQUAL, w/ 12" MINIMUM EMBEDMENT, POURED IN PLACE,

1.2. POST-SET. USE SIMPSON TITEN, RETRO BOLTS, OR EQUAL. 1.3. DIAMETER. USE SIZE DETERMINED BY BUILDING PROVIDER.

1.4. STRENGTH. SELECT BOLTS AND BOLT PATTERNS SUCH THAT EACH FRAME BASE IS CAPABLE OF WITHSTANDING 14,000 LBS UPWARD TENSION AND 8,000 LBS LATERAL SHEAR.

2. BASE PLATES. USE 34" A36 BASEPLATES, SET IN 34" MORTAR, OR AS OTHERWISE SHOWN ON DRAWINGS OR APPROVED BY ENGINEER OF RECORD. 3. BUILDING PROVIDER'S CERTIFICATION. PROVIDER TO CERTIFY THAT BASES OF STEEL FRAMES AND BASE PLATES ARE SIZED AND LOCATED TO FIT ON CONCRETE FOUNDATION COLUMNS SHOWN HEREIN. IT IS INCUMBENT UPON BUILDING PROVIDER TO MATCH BOTTOMS OF STEEL FRAMES TO FOUNDATION SHOWN HEREIN. IF STEEL FRAMES ARE NOT SUITABLE TO CONDITIONS/CONFIGURATIONS SHOWN ON THESE DRAWINGS, THEN PROVIDER WILL TAKE STEPS TO EITHER RECONCILE DESIGN OF STEEL FRAMES OR TO CONSULT WITH AND RECONCILE WITH

ENGINEER OF RECORD. CONTRACTOR TO ASSURE THAT THIS CERTIFICATION OCCURS PRIOR TO FOUNDATION CONSTRUCTION / CONCRETE POUR. 4. GIRT & STEM WALL CONFIGURATION. GIRT PLACEMENT WILL EITHER BE "FLUSH MOUNT" TO STEEL FRAMING OR "THROUGH MOUNT" AS SHOWN HEREIN DEPENDING UPON PROJECT. STEM WALL WILL BE EITHER FLUSH WITH FLOOR SLAB SURFACE ELEVATION OR WILL BE RAISED AS A STEM WALL, SHOWN HEREIN, ALSO DEPENDENT UPON PROJECT. CONTRACTOR TO REFER TO ARCHITECTURAL

SHEETS FOR ACTUAL PROJECT GIRT AND STEM WALL CONFIGURATION AND MAKE ADJUSTMENTS AS REQUIRED. 5. SLAB REINFORCEMENT. UNLESS INDICATED OTHERWISE ON DRAWINGS, SLABS ON GRADE TO BE REINFORCED FOR SHRINKAGE AND CRACK CONTROL AS FOLLOWS: 6" THICK SLAB - 6x6-#6 WWM; 4" THICK SLAB - 6x6-#10 WWM. NORMAL UNIFORM LOAD CAPACITIES ARE 6" (250 PSF) AND 4" (125 PSF).

6. PAD FOOTING LABELING. LABELING PROTOCOL IS "SPOT FOOTING TYPE - FOUNDATION COLUMN TYPE." EXAMPLE - "P1-A" IS SPOT FOOTING TYPE "P1" AND FOUNDATION COLUMN TYPE "A." 7. REBAR OPTION. LARGER REBAR MAY BE USED AT CONTRACTORS DISCRETION, BUT SHALL BE COORDINATED WITH ENGINEER OF RECORD.

C \bigcirc 9

 $\frac{\square}{S}$

 \bigcirc

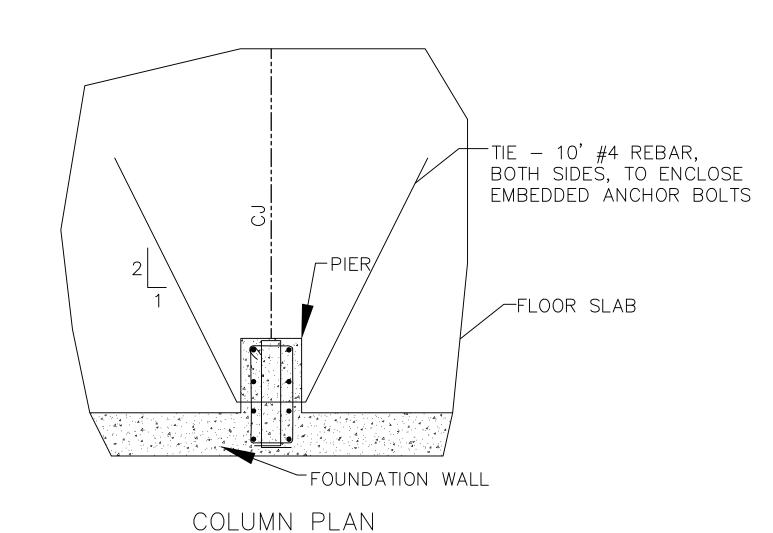
Foundation Notes & Details

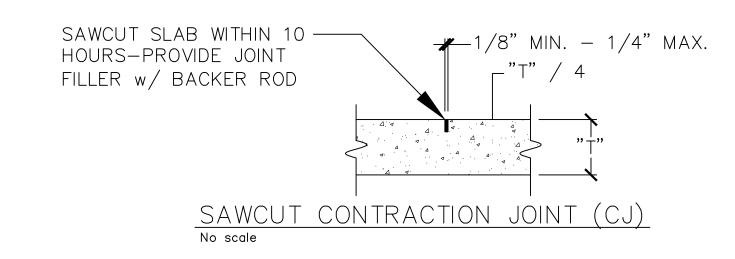
GENERAL SPECIAL INSPECTION NOTES -- TO BE PERFORMED AS REQUIRED BY BUILDING OFFICIAL:

PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 1702)

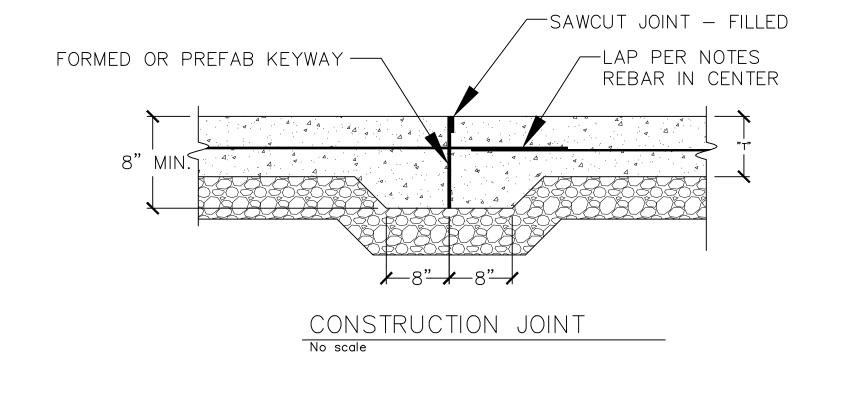
- THE ITEMS MARKED WITH A " IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIALS SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS ON A MONTHLY BASIS DIRECTLY TO THE ARCHITECT—ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND ARCHITECT—ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. SPECIAL INSPECTION OF THE IBC. IN ADDITION TO PROVIDE MENTS SHOWN IN THE APPLY FOLION OF THE FOLLOWING SPECIAL INSPECTION REQUIREMENTS WILL APPLY. REQUIREMENTS SHOWN IN THE ABOVE CHART, THE FOLLOWING SPECIAL INSPECTION REQUIREMENTS WILL APPLY.
 ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
- CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING
 - ALL THIRD-PARTY INSPECTIONS TO BE PERFORMED OR SEPARATELY CONTRACTED FOR BY OCSD

WATER-TIGHT DOOR SEAL 16 GA. METAL DOOR (TYP.) THRESHOLD SET IN CONT. BED OF CONCRETE SLAB @ FINISH FLOOR HEIGHT ____ INTERIOR FLOORING, AS SPEC'D #4 DOWELS x 3'-0" @ 18" O.C., CENTERED OVER FOUNDATION WALL HOLD FND. WALL DOWN AT DOORS & $\frac{1}{2}$ " COMP. JOINT FILLER w/ POUR OVER (TYP. @ DOORS) SEALANT & BACKER RÓD THRESHOLD AT EXT. DOORS (TYP.





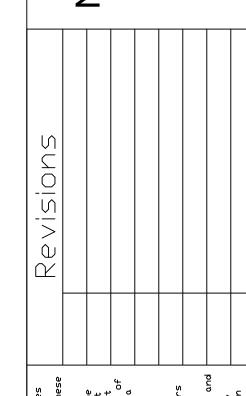
No scale





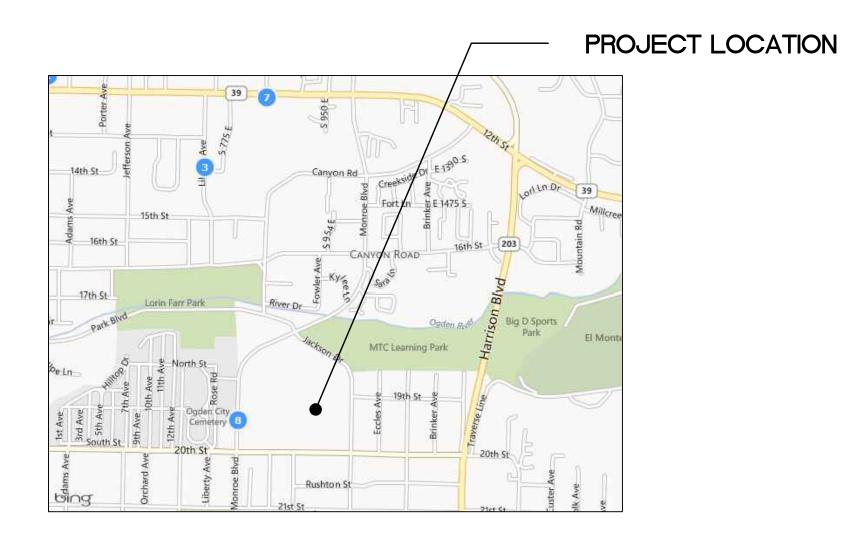
 Ω

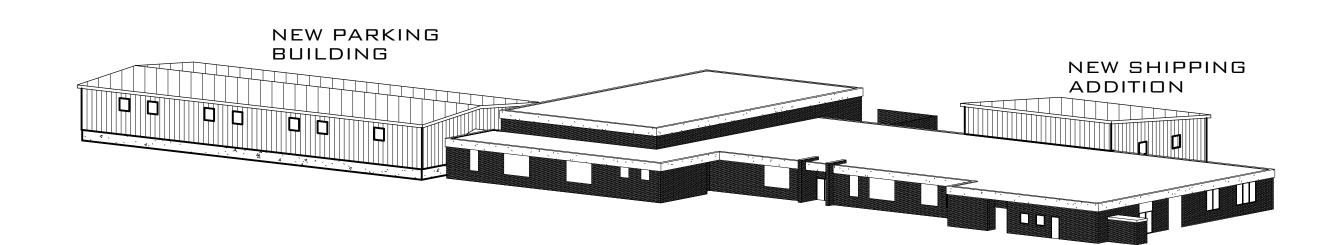




Foundation Notes &

Details





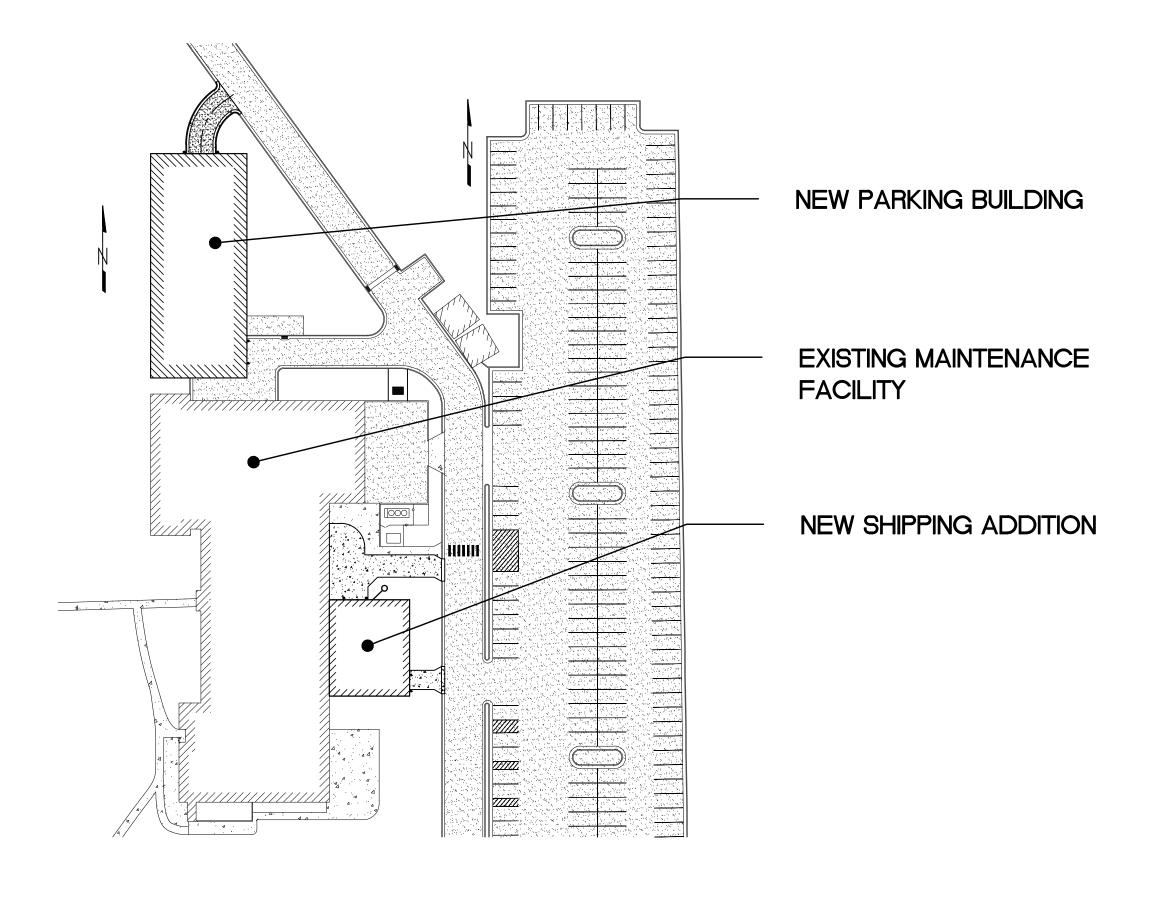
GENERAL NOTES & CONDITIONS

- 1. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO VERIFY THE CONDITIONS, DIMENSIONS, AND STRUCTURAL DETAILS OF THE BUILDING PROJECT PRIOR TO STARTING ANY STAGE OF CONSTRUCTION. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR PROBLEMS THAT MAY ARISE DUE TO POSSIBLE ERRORS ON THESE PLANS AND SHALL BRING THESE ISSUES TO THE ARCHITECT-ENGINEER'S ATTENTION IN A TIMELY MANNER FOR RESOLUTION. USE OF THESE PLANS CONSTITUTES ACKNOWLEDGMENT AND ACCEPTANCE OF THESE TERMS
- 2. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED AND GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE VARIOUS TRADES TO EXPEDITE THE JOB IN A SMOOTH AND CONTINUOUS PROCESS.
- 3. UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE CONTRACT DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE.
- 4. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DRAWINGS AND / OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC), MUNICIPAL OR COUNTY ZONING ORDINANCES, PUBLIC WORKS ENGINEERING DIRECTIVES, UTAH STATE CODES, LATEST EDITIONS THEREOF.
- 6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND THE SAFETY IN AND AROUND THE JOB SITE AND ON ADJACENT PROPERTIES.
- 7. THE GENERAL CONTRACTOR SHALL AT ALL TIMES KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN.
- 8. COMPLIANCE WITH CODES AND ORDINANCES GOVERNING THE WORK SHALL BE PROVIDED AND ENFORCED BY THE GENERAL CONTRACTOR.
- 9. WHERE CONFLICT EXISTS, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE AND SPECIFICATIONS/NOTES TAKE PRECEDENCE OVER DRAWINGS.
- 10. MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE FOLLOWED.
- 11. CONTRACTOR SHALL ASCERTAIN WHETHER SPECIAL ENGINEERING STUDIES ARE REQUIRED FOR THE LOT TO BE BUILT UPON FROM THE BUILDING OFFICIAL AND SHALL OBTAIN SUCH STUDIES AS PART OF THE BUILDING PERMIT PROCESS.
- 12. CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND REROUTING EXISTING UTILITY LINES AS REQUIRED.
- 13. <u>DESIGN BUILD</u>. PROJECT IS "DESIGN BUILD" AND WILL NECESSARILY REQUIRE SOME SUBMITTALS TO BE PROVIDED BY CONTRACTOR TO BUILDING OFFICIAL, AND WILL BE SUBMITTED PRIOR TO CONSTRUCTION ACTIVITIES AFFECTING THOSE ELEMENTS OF CONSTRUCTION. DESIGN-BUILD REQUIREMENT IS TO ENABLE EARLY CONSTRUCTION ITEMS TO BE INITIATED TO SUPPORT PROJECT SCHEDULE.
- 14. CONTRACTOR ASSURANCE. THIS PROJECT PROVIDES THE STRUCTURAL SUPPORT FOR A FACILITY BEING CONSTRUCTED IN ACCORDANCE WITH A PRE-ENGINEERED METAL BUILDING (PEMB) DESIGN, TO BE PROVIDED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT REQUIREMENTS OF THESE DRAWINGS AND THE PEMB PLAN, WHEN RECEIVED, ARE FULLY INTEGRATED. CONTRACTOR TO GIVE SPECIAL CARE TO ASSURE THE PEMB BOLT PATTERNS AND LAYOUTS ARE WELL INTEGRATED WITH THIS PLAN AND ITS FOUNDATION PLAN.
- 15. <u>PRE-ENGINEERED METAL BUILDING MANUFACTURER'S CERTIFICATION</u>, BUILDING MANUFACTURER SHALL CERTIFY BY UTAH STATE STRUCTURAL ENGINEERING STAMP AND SIGNATURE THAT SUPPLIED METAL BUILDING ADEQUATELY MEETS ALL REQUIREMENTS FOR SUPPORTING THE FACILITY DESIGNED HEREIN, INCLUDING MECHANICAL EQUIPMENT, ARCHITECTURAL FEATURES AND FACADES, WALL SYSTEMS, AND ALL OTHER REQUIREMENTS AS SHOWN ON PLANS HEREIN.
- 16. QUALIFIED PEMB PROVIDERS. METAL BUILDING MANUFACTURER/PROVIDER MUST BE LISTED ON UTAH STATE DFCM LIST OF APPROVED FABRICATORS,
- 17. PEMB CONTRACTOR QUALIFICATIONS. CONTRACTOR SHALL HAVE, 1) GENERAL CONTRACTOR'S LICENSE; 2) ALL INSURANCES REQUIRED BY STATE LAW; 3) MINIMUM 5 YEARS OF ERECTION EXPERIENCE; 4) CERTIFIED PERSONNEL FOR ERECTION, SEAMS AND SEALANTS; 5) PERSONAL PROTECTIVE FALL GEAR; 6) ACCREDITATION WITH A STEEL BUILDING MANUFACTURER OR BUILDER DEALER FOR METAL BUILDINGS THAT HAVE MEMBERSHIP WITH METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA); AND, 7) AN AVAILABLE LIST OF COMPLETED METAL BUILDING PROJECTS.

Addn to Ogden City School District Maint Fac

1950 Monroe Blvd. Ogden, Utah

CONTACT: Mr. Jared Cherry 2444 Adams Ave. Ogden, Utah 801-430-1293



DESI	GN CF	RITERIA
Governing Code		2009 IBC
Seismic Criteria		ZONE D
		Occ. Cat. II
		Fa = 1.00
		Ss = 1.405g
Wind Speed (3-sec	ond gust)	90 MPH
		Exposure C
		I = 1.00
Roof Loads	Dead	5 PSF
	Snow	30 PSF
Floor Loads	Dead	75 PSF(6")/100 PSF(8")
	Live	50 PSF & 2,000# POINT
Ground Snow Load		43 PSF
Soil Bearing Pressu	re	1500 PSF
Frost Depth		30 inch
Building Occupancie	s	S-2(Park)/B, F-1, S-1(other)
Type Construction		Type IIB(Park)/IIIB(other)
Fire Sprinklers		Not Required
Area Allowance (IBC	C Table 503)	26,000SF(Park)/29,040SF(other)
Actual Total Footpr	int	8,400SF(Park)/28,059SF(other)
Height Allowance		3 STORY(Park)/2 STORY(other)
Height Actual		1 STORY
Required Fire Rating	gs	SEE IBC REVIEW BELOW

IBC Code Review--Fire Safety

- 1. ALL BUILDINGS THIS PROJECT TO BE PRE-ENGINEERED METAL BUILDINGS. PARKING BUILDING TO BE TYPE IIB CONSTRUCTION, AND OTHER BUILDING (SHIPPING + EXISTING) TO BE TYPE IIIB CONSTRUCTION.
- 2. THERE ARE NO NEW LOAD—BEARING WALLS BEING CONSTRUCTED AND EXISTING BUILDING EXTERIOR LOAD—BEARING WALLS ARE AT LEAST 2—HOUR RATED. SEPARATION OF PARKING BUILDING AND EXISTING BUILDING IS 10 FEET. THEREFORE, PER IBC T.601 & T.602, ONLY NEWLY REQUIRED FIRE RATED BUILDING ELEMENT THIS PROJECT IS SOUTH END WALL OF PARKING BUILDING (1-HOUR) TO INCLUDE FIRST 10
- 3. INSTALL PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY STATE FIRE MARSHALL AND/OR OCSD BUILDING OFFICIAL.
- 4. PROVIDE ILLUMINATION FOR MEANS OF EGRESS AND EXIT DISCHARGE LOCATIONS, WITH BACK-UP POWER SOURCE. (REF. IBC 1006)

Submittals. Project is design-build and will necessarily have some parts of the design submitted during construction, but prior to pouring concrete, installing utilities or other permanent action. The following items will be submitted by contractor to the building official and the engineer for approval.

- Structural design from metal building manufacturer to be submitted prior to building erection and prior to foundation
- Foundation design to be submitted prior to foundation concrete placement. Plans herein show only the conceptual foundation design; final deferred submittal will provide detailed foundation design, including concrete strengths, final dimensions, reinforcement, etc.
- Mechanical, Electrical & Plumbing designs to be submitted to building official and engineer. Plans herein show only functional mechanical, electrical and plumbing designs and general design criteria, and will be subject to modification after receipt of contractor's submittals for these disciplines.
- Fire Protection design to be submitted to building official and engineer. Existing fire detection system to be extended to new parking building and to shipping addition.
- Security System design to be submitted to building official and engineer. System to be suitable for intended use and acceptable to OCSD.

INDEX OF DRAWINGS

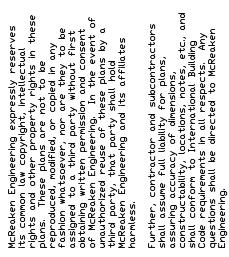
	TITLE SHEET
Notes	GENERAL NOTES
A-1	GENERAL FLOOR PLAN
A-2	FLOOR PLANS
A-3	ELEVATIONS
A-4	PARKING GARAGE ELEVATIONS
A-5	SHIPPING RECEIVING ELEVATIONS
A-6	SECTIONS
□-1	SITE PLAN
C-2	CIVIL DETAILS
C-3	GRADING & UTILITY PLANS

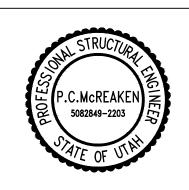
STORM WATER POLLUTION PREVENTION PLAN MEP MECHANICAL, ELECTRICAL & PLUMBING

FOUNDATION PLANS

S-1 FRAMING PLANS

5-3 STRUCTURAL NOTES & DETAILS STRUCTURAL NOTES & DETAILS





Valid only for the home being built on this lot, and when signed by engineer in blue ink and stamped.

TITLE SHEET ISSUED - 15 February 2013 A. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH OCSD STANDARDS. CONTRACTOR SHALL CAREFULL EXAMINE SPECIFICATIONS AND DRAWINGS AS WELL AS THE SITE AND CONDITIONS AFFECTING THE WORK. CONTRACTOR SHALL FULLY UNDERSTAND ALL PROVISIONS CONTAINED IN THESE DOCUMENTS AND AGREES TO DO ALL THAT IS REQUIRED BY THEM INCLUDING FURNISHING ALL NECESSARY LABOR AND MATERIALS TO SUPPLY AND INSTALL WORK OF EACH DIVISION OF THE WORK OR

B. CONTRACTOR AND APPLICABLE SUBCONTRACTORS SHALL ATTEND ALL PRE-CONSTRUCTION CONFERENCES AND PERIODIC CONFERENCE. CONTRACTOR SHALL ALSO NOTIFY THE APPROPRIATE PROJECT CONTACTS 48 HOURS IN ADVANCE OF STATED MEETING, OR AS OTHERWISE REQUIRED BY OCSD.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC SAFETY AND OSHA STANDARDS.

 $\hbox{D. THE CONTRACTOR SHALL FAMILIARIZE HIM SELF WITH THE PLANS, THE GEOTECHNICAL REPORTS, AS AVAILABLE, AND THE SITE \\ \hbox{}$ CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL INSPECT THE SITE AND WORK CONDITIONS PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS PREFERRED, OF THE LOCATION OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK.

A. LOCATE ALL EXISTING UTILITY SERVICE LINES AND PROTECT THROUGHOUT CONSTRUCTION OPERATIONS

B. LAY OUT WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS, MEASUREMENTS, UTILITIES, AND OTHER WORK EXECUTED UNDER THE CONTRACT.

C. EXAMINATION. ANY DISCREPANCIES, ERRORS OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE PRECEDING WITH RELATED WORK, OTHERWISE THE CORRECTION OF SUCH ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.

D. CODES AND STANDARDS. ALL WORK, MATERIALS AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL CODIFIED ORDINANCES, APPLICABLE STATE AND OCSD BUILDING CODES, LATEST EDITIONS. A COPY OF EACH IS AVAILABLE IN THE ARCHITECT-ENGINEER'S OFFICE.

01500 - TEMPORARY FACILITIES & CONTROLS

A. TEMPORARY OFFICE AS REQUIRED BY CONTRACTOR;

B. TEMPORARY ELECTRICAL SERVICE SHALL BE MADE AVAILABLE ON SITE BY THE CONTRACTOR FOR HIS USE

C. TEMPORARY WATER SUPPLY SHALL BE MADE AVAILABLE ON SITE BY THE CONTRACTOR FOR HIS USE; D. CONTRACTOR TO PROVIDE TEMPORARY / PORTABLE TOILET FACILITIES FOR USE ON SITE; AND

E. CONTRACTOR TO PROVIDE FOR REFUSE AND RUBBISH COLLECTION AND REMOVAL, AND SHALL BE PERFORMED LEGALLY, WITH DUST COVERS ON TRUCKS AND OTHER METHODS TO PRECLUDE DUST AND DEBRIS BEING SCATTERED ON SITE OR ELSEWHERE.

1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION;

2. STRUCTURAL LOADS: SEE STRUCTURAL DRAWINGS FOR GRAVITY, SEISMIC, WIND AND OTHER LOAD FACTORS; AND

A. PERMITS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN AND APPLY FOR ALL PERMITS, LICENSES, CERTIFICATES, INSPECTIONS AND ALL OTHER FEES REQUIRED BY LAW, BOTH PERMANENT AND TEMPORARY. MAINTAIN COPIES OF ALL PERMITS ON THE JOB SITE AT ALL TIMES.

I. THE OWNER RESERVES THE RIGHT TO MAKE ANY DESIRED CHANGE IN PLANS AND SPECIFICATIONS AFTER THE SAME SHALL HAVE BEEN PUT UNDER CONTRACT. BUT ANY CHANGE SO MADE, WITH THE PRICE TO BE ADDED OR DEDUCTED FROM THE CONTRACT PRICE, SHALL BE AGREED UPON BETWEEN THE OWNER AND THE CONTRACTOR AND ENDORSED UPON THE ORIGINAL CONTRAC

WHEN BOTH PARTIES SHALL AGREE THERETO, IT SHALL IN NO WAY INVALIDATE OR MAKE VOID THE TERMS OF THE ORIGINAL

ONE OR MORE OF THE FOLLOWING WAYS--CHANGE ORDER WITH COSTS FOR EXTENSIONS INCLUDED IN PROPOSAL:

2. THE OWNER, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM THEN BEING ADJUSTED ACCORDINGLY. ALL SUCH WORK SHALL BE EXECUTED UNDER THE CONDITIONS OF THE ORIGINAL CONTRACT EXCEPT THAT ANY CLAIM FOR EXTENSION OF TIME CAUSED THEREBY SHALL BE ADJUSTED AT THE TIME OF SUCH CLAIM. THE VALUE OF ANY SUCH WORK OR CHANGE SHALL BE DETERMINED IN

a) BY ESTIMATE AND ACCEPTANCE IN A LUMP SUM; OR

3. WOOD FRAME CONSTRUCTION MANUAL (WFCM), LATEST EDITION.

b) BY COST AND PERCENTAGE OR BY COST AND FIXED FEE.

02000 - GENERAL

C. CLEANING. IN ADDITION TO REMOVAL OF RUBBISH AND LEAVING BUILDING BROOM CLEAN, CONTRACTOR SHALL REMOVE STAINS, SPOTS, MARKS AND DIRT FROM DECORATED WORK, WASH CONCRETE FLOORS, AND CLEAN AND WAX ALL RESILIENT FLOORS AND CLEAN ALL GLASS. CONTRACTOR SHALL COMPLY WITH ALL SPECIAL CLEANING INSTRUCTIONS IN THE SPECIFICATIONS AND / OR

D. DRAWINGS AND SPECIFICATIONS ARE INTEENDED TO BE COMPLIMENTARY. SPECIFIC INFORMATION MAY BE FOUND IN EITHER OR

E. WHEN A CONTRACTOR IS ALLOWED A SUBSTITUTION, HE WILL STAND THE ENTIRE EXPENSE OF THE SUBSTITUTION, INCLUDING WORK AND EXPENSES OF OTHER CONTRACTORS CAUSED BY THE SUBSTITUTION. DIVISION II - SITE WORK

A. ALL WORK SHALL COMPLY WITH THE AMERICAN PUBLIC WORKS ASSOCIATION UTAH CHAPTER (APWA) MANUAL OF STANDAR SPECIFICATIONS, LATEST EDITION, AND THE MANUAL OF STANDARD PLANS, LATEST EDITION, SAID STANDARD SPECIFICATIONS AND ${\tt PLANS~SHALL~BE~SUBSIDIARY~TO~MORE~STRINGENT~REQUIREMENTS~BY~APPLICABLE~LOCAL~JURISDICTION.}\\$

B. THE CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OR WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. IT IS EXPECTED THAT THE PRICES PROVIDED WITHIN THE CONTRACTOR DOCUMENTS SHALL INCLUDE ALL LABOR AT MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS REGARDING NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN REGULAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR PECULIARLY UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURE TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS FOR ALL PERMITS AND APPROVALS APPLICABLE TO THE PROJECT. CONTRACTOR SHALL ENSURE THAT NECESSARY RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL OBTAIN APPROPRIATE PERMITS WHERE APPLICABLE FOR SHALL NOTIFY OCSD, COUNTY, AND/OR STATE, 24 HOURS IN ADVANCE OF PERFORMING WORK, OR AS REQUIRED BY SAID PERMITS.

D. CONSTRUCTION STAKING FOR GRADING, CURB, GUTTER, SIDEWALK, SANITARY SEWER, STORM DRAIN, WATER AND ELECTRICA WORK SHALL BE DONE BY THE OWNER'S SURVEYOR. CONTRACTOR SHALL NOTIFY SURVEYOR 48 HOURS IN ADVANCE OF NEED FOR STAKING. ANY STAKING REQUESTED BY CONTRACTOR OR SUBCONTRACTORS THAT IS ABOVE AND BEYOND STANDARD STAKING NEEDS WILL BE SUBJECT TO AN EXTRA WORK BACK CHARGE TO THE CONTRACTOR. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS. CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE

SURVEY BENCH MARKS. CONTRACTOR TO ASSURE THAT HORIZONTAL & VERTICAL ALIGNMENT ARE MAINTAINED. IF REQUIRED CONTACT COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING. CONTRACTOR RESPONSIBLE TO REPLACE IF MOVED TO ANY

E. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND/OR ENGINEER.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. LL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR REINSPECTION SHALL BE PAID FOR BY

G. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT OF EXISTING IMPROVEMENTS. THERE WILL BE NO EXTRA COST DUE THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OF CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER AND THE RESPECTIVE REGULATORY AGENCY.

H. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE OWNER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE. 02220 - SITE DEMOLITION

A. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS TO A DEPTH OF 18 INCHES BELOW EXPOSED

B. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL IN HORIZONTAL LAYERS / LIFTS NOT EXCEEDING 8-INCH LOOSE DEPTH AND COMPACT EACH LAYER TO A DENSITY EQUAL TO ADJACENT ORIGINAL

C. STRIP SUITABLE TOP SOIL TO WHATEVER DEPTHS ARE ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH

UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. D. STOCKPILE SURPLUS TOPSOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO PROPERLY DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.

E. REMOVE EXISTING ABOVE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW

02240 - DEWATERING

A. CONTRACTOR SHALL FURNISH, INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL AVATIONS FEE FROM WATER DURING CONSTRUCTION. CONTRACTOR SHALL DISPOSE OF THE WATER SO AS NOT TO CAUSE DAMAGE TO PUBLIC OR PRIVATE PROPERTY. OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC OR VIOLATE THE LAW. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUND LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COST FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF ONE FOOT BELOW THE BOTTOM OF EXCAVATIONS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION; DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO ONE FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL

B. CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED. $\texttt{C. SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO \\$

D. CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATIONS, OR FORMATION OF "QUICK" CONDITIONS OR "BOILS", DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF NATURAL SOILS. RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF NATURAL FOUNDATION SOILS. PREVENT DISTURBANCE OF COMPACTED BACKFILL. AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS. IF AN UPDES (UTAH POL ELIMINATION SYSTEM) PERMIT IS REQUIRED FOR DISPOSAL OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES, IT SHALL BE

OBTAINED BY THE CONTRACTOR PRIOR TO ANY DEWATERING ACTIVITIES.

THE DEWATERING SYSTEM PIPING AS TO PERMIT IMMEDIATE USE. IN ADDITION, STANDBY EQUIPMENT AND APPLIANCES FOR ALL

ORDINARY EMERGENCIES, AND COMPETENT WORKMEN FOR OPERATION AND MAINTENANCE OF ALL DEWATERING EQUIPMENT SHAL BE ON SITE AT ALL TIMES. STANDBY EQUIPMENT SHALL INCLUDE EMERGENCY POWER GENERATION AND AUTOMATIC SWITCH OVER TO THE EMERGENCY GENERATOR WHEN NORMAL POWER FAILS. DEWATERING SYSTEMS SHALL NOT BE SHUT DOWN BETWEEN SHIFTS, ON HOLIDAYS, ON WEEKENDS, OR DURING WORK STOPPAGES.

A. GENERAL. PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM

I. SATISFACTORY SOILS. ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP AND SM, OR A COMBINATION OF THESE GROUP SYMBOLS. SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, BEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER.

2. UNSATISFACTORY SOILS. ASTM D 2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH AND PT, OR A

COMBINATION OF THESE GROUP SYMBOLS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2

3. BACKFILL AND FILL. USE SATISFACTORY SOIL GROUP MATERIALS.

4. SUBBASE. USE NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND, ASTM D 2940, WITH 70-100 PERCENT PASSING A 4-INCH SIEVE, 50-70 PERCENT PASSING A 1-INCH SIEVE, 30-50 PERCENT PASSING A NO. 4 SIEVE, AND 5-15 PERCENT PASSING A NO. 200 SIEVE.

5. BASE. USE NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND, WITH 100 PERCENT PASSING A 1-INCH SIEVE, 70-100 PERCENT PASSING A 1/2-INCH SIEVE, 41-68 PERCENT PASSING A NO. 4 SIEVE, 21-41 PERCENT PASSING A NO. 16 SIEVE, 10-27 PERCENT PASSING A NO. 50 SIEVE, AND 4-13

6. ENGINEERED FILL. NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL. CRUSHED STONE 1-INCH SIEVE, 30-50 PERCENT PASSING A NO. 4 SIEVE, AND 5-15 PERCENT PASSING A NO. 200 SIEVE.

7. BEDDING. NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND, ASTM D 2940, EXCEPT WITH 100 PERCENT PASSING A 1-INCH SIEVE, AND 0-5 PERCENT PASSING A NO. 4

8. DRAINAGE FILL. WASHED, NARROWLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL, ASTM 0448, COARSE AGGREGATE GRADING SIZE 57, WITH 100 PERCENT PASSING A 1-1/2-INCH SIEVE, AND 0-5 PERCENT PASSING A NO. 4

9. FILTER MATERIAL. NARROWLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, OR CRUSHED STONE AND NATURAL SAND, ASTM D 448, COARSE AGGREGATE GRADING SIZE 67, WITH 100 PERCENT PASSING A 1-INCH SIEVE, AND 0-5 PERCENT PASSING A

10. IMPERVIOUS FILL. CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE. B. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION TO WITHIN 2

C. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED

D. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557 R STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 12 INCHES OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT.

E. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D698. UNDER HEAVY CONCRETE PAVING, CURBS AND GUTTERS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT. 2. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL MATERIAL AT 80 PERCENT.

3. UNDER SIDEWALKS OR REGULAR CONCRETE PAVING, USE 90 PERCENT.

4. ALL TRENCH BACKFILL, USE 95 PERCENT

A. CONTRACTOR TO SPACE UTILITIES TO PROVIDE MINIMUM DISTANCES AS REQUIRED BY LOCAL, COUNTY, STATE AND OTHER UTILITY

B. ALL UTILITIES ARE TO BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING AGENCY / DISTRICT STANDARDS AND

WATER - OCSD STANDARDS SEWER - OCSD STANDARDS STORM DRAIN / GROUNDWATER - OCSD ELECTRICAL - ROCKY MOUNTAIN POWER TELEPHONE - QWEST NATURAL GAS - QUESTAR

C. COORDINATE ALL SERVICE LATERAL AND BUILDING CONNECTIONS WITH CORRESPONDING ARCHITECTURAL, SITE PLAN MECHANICAL OR ELECTRICAL DRAWINGS FOR LOCATION AND ELEVATION. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES

D. ALL STORM DRAIN MANHOLES AND CATCH BASINS ARE TO BE PRECAST CONCRETE FROM APPROVED LOCAL MANUFACTURER UNLESS OTHERWISE NOTED; AND COMPLY WITH OCSD STANDARDS.

E. ALL STORM WATER CONVEYANCE PIPING TO BE RCP-CLASS 3 OR EQUAL UNLESS OTHERWISE NOTED.

F. ALL ELECTRICAL CONDUITS / LINES TO BE PVC SCHEDULE 40 OR BETTER.

G. ALL GAS LINES TO BE HDPE WITH COPPER TRACER WIRE AND DETECTA TAPE. TERMINATE TRACER WIRE AT APPROVED

H. ALL GAS LINE TAPS, VALVES AND CAPS TO BE FUSED USING ELECTRO-FUSION TECHNOLOGY.

I. ALL PHONE AND TV CONDUITS TO BE PVC SCHEDULE 40 OR BETTER.

I. NO GROUNDWATER OR DEBRIS TO BE ALLOWED TO ENTER THE NEW PIPE DURING CONSTRUCTION. THE OPEN END OF ALL PIPES IS TO BE COVERED AND EFFECTIVELY SEALED AT THE END OF EACH DAY'S WORK. K. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4 FEET OR MORE. FOR EXCAVATIONS MORE THAN 4 FEET IN DEPTH, THE CONTRACTOR

SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68-EXCAVATIONS, AND SECTION 69-TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES. L. PRIOR TO OPENING AN EXCAVATION. EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS (I.E SEWER, WATER, FUEL, ELECTRIC LINES, ETC.) WILL BE ENCOUNTERED AND ITS ON WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE

ED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION. M. ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND ESTING OF NEW WATER MAINS. ALL EXISTING WATER VALVES TO BE OPERATED UNDER THE DIRECTION OF OCSD PUBLIC UTILITIES

DEPARTMENT PERSONNEL ONLY. N. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, BUTTER, SIDEWALK AND STREET PAVING.

A. ALL SEWER LINES TO BE FLUSHED, PRESSURE TESTED TO 5 PSI, VIDEO INSPECTED, AND OTHERWISE TESTED IN ACCORDANCE

WITH DISTRICT STANDARDS PRIOR TO PLACING IN SERVICE. B. ALL SEWER LINES AND LATERALS ARE TO BE SDR 35 PVC PIPE, UNLESS OTHERWISE NOTED ON DRAWINGS.

C. SEWER MANHOLES, LATERALS AND CLEANOUTS TO BE INSTALLED PER SEWER DISTRICT STANDARDS. THE UNIT COST OF SEWER ATERALS INCLUDES CONNECTION TO THE SEWER MAIN. THE CLEANOUT RISER FOR EACH SERVICE SHALL BE INSTALLED BY THE D. DURING CONSTRUCTION OF SEWER LINES, WYES NEED TO BE INSTALLED FOR THE LATERALS. LATERALS ARE 6 INCH AND NEED TO

COME IN AT THE TOP OF THE PIPE WITH A WYE, UNLESS OTHERWISE NOTED ON DRAWINGS. SEE OCSD STANDARDS. A. WATERLINES TO BE PVC C-900, OR AS OTHERWISE NOTED ON DRAWINGS. WATER LINES SHALL BE A MINIMUM OF 10 FOO

HORIZONTALLY FROM SEWER MAINS. CROSSINGS SHALL MEET STATE HEALTH STANDARDS. MECHANICAL JOINTS ARE REQUIRED WHEN LESS THAN 18 INCHES VERTICAL OR TEN FEET HORIZONTAL SEPARATION FROM SEWER LINES. B. ALL WATER MAINS SHALL BE 8 INCH MINIMUM SIZE AND SERVICE LATERALS SHALL BE 1-1/2" MINIMUM UNLESS OTHERWISE NOTED

C. WATER SERVICE LATERALS TO INCLUDE ALL BRASS SADDLE; CORPORATION STOP LATERAL, DOUBLE CHECK VALVE AND

BACKFLOW PREVENTION DEVICE, AND SHUTOFF VALVE IN BOX NEAR BUILDING EDGE

D. ALL WATER LINES SHALL BE MINIMUM 48 INCHES BELOW FINISH GROUND TO TOP OF PIPE. ALL VALVE BOXES AND MANHOLES SHALL BE RAISED OR LOWERED TO FINISH GRADE AND SHALL INCLUDE A CONCRETE COLLAR IN PAVED AREAS E. CONTRACTOR TO NOTIFY PUBLIC WORKS FOR CHLORINE TEST PRIOR TO FLUSHING LINES, CHLORINE LEFT IN PIPE 24 HOURS

MINIMUM WITH 25 PPM RESIDUAL. ALL TURNING OF MAINLINE VALVES, CHLORINATION, FLUSHING PRESSURE TESTING, BACTERIA

TESTING, ETC., TO BE COORDINATED WITH OCSD PUBLIC UTILITIES. ALL TESTS TO BE IN ACCORDANCE WITH AWWA STANDARDS.

A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITIES SHOWN OR NOT SHOWN. THE INFORMATION SHOWN ON PLANS WITH INFORMATION. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE FACILITIES SHOWN AND ANY OTHER FACILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. PRIOR TO CONSTRICTION, IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL EXISTING IMPROVEMENTS AND TO EXPOSE ALL EXISTING UNDERGROUND UTILITIES RELATED TO THE PROJECT

INCLUDING BUT NOT LIMITED TO SEWER, STORM DRAIN, WATER, IRRIGATION, GAS, ELECTRICAL, ETC., AND SHALL NOTIFY THE ENGINEER IN WRITING 48 HOURS IN ADVANCE OF EXPOSING THE UTILITIES SO THAT THE EXACT LOCATION AND ELEVATION CAN BE ERIFIED AND DOCUMENTED. THE COST ASSOCIATED TO PERFORM THIS WORK SHALL BE INCLUDED IN EITHER THE LUMP SUM EARING COST OR IN THE VARIOUS ITEMS OF WORK. IF LOCATION AND/OR ELEVATION DIFFERS FROM THAT SHOWN ON THE DESIGN PLANS, PROVISIONS TO ACCOMMODATE NEW LOCATION SHALL BE MADE PRIOR TO CONSTRUCTION. B. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE. IN THE FIELD, THEIR MAIN AND SERVICE LINES. CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILI

TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGES RESULT TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY

REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR AND UTILITY COMPANIES INSTALLING NEW

STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.

DURING CONSTRUCTION.

C. ALL UTILITY MANHOLE RIMS, CATCH BASIN GRATES AND VALVE BOX COVERS ARE TO BE ADJUSTED TO FIT THE FINISHED GRADE OF D. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT ALL PIPES, WALLS, ETC., ARE ADEQUATELY BRACED

A. CONTRACTOR SHALL PERFORM EARTHWORK IN ACCORDANCE WITH OCSD STANDARD SPECIFICATIONS. UTAH PUBLIC WORKS PREPARED REPORT OF GEOTECHNICAL INVESTIGATION.

B. CONTRACTOR SHALL REMOVE ALL VEGETATION AND DELETERIOUS MATERIALS FROM THE SITE LINLESS NOTED OTHERWISE: ALL EXISTING WELLS AND SEPTIC TANKS SHALL BE REMOVED AND/OR ABANDONED PER REQUIREMENTS OF LOCAL, STATE AND FEDERAL REGULATIONS. THE COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.

C. SUBSOIL INVESTIGATIONS HAVE BEEN CONDUCTED AT THE WORK SITE. BEFORE FOOTINGS, FOUNDATIONS, OR STRUCTURAL WALL TRUCTION CAN COMMENCE, A REVIEW OF THE PROFESSIONALLY PREPARED REPORT OF THESE INVESTIGATIONS, MUST BE

SOIL INVESTIGATIONS WERE CONDUCTED FOR DESIGN PURPOSE ONLY AND THAT DATA SHOWN IN THE REPORTS ARE FOR SUBSURFACE CONDITIONS FOUND AT THE TIME OF THE INVESTIGATION. THE OWNER AND ENGINEER DISCLAIM RESPONSIBILITED FOR THE INTERPRETATION BY THE CONTRACTOR OF DATA, SUCH PROJECTION OR EXTRAPOLATION, FROM THE TEST HOLES TO OTHER LOCATIONS ON THE SITE OR THE WORK. SOIL BEARING VALUE AND PROFILES, SOIL STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER FOR SUBSURFACE CONDITIONS DURING CONSTRUCTION OPERATIONS.

D. ALL PROPOSED ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO FINISHED SURFACE. CONTRACTOR IS RESPONSIBLE TO DEDUCT THE THICKNESS OF THE PAVEMENT STRUCTURAL SECTION FOR TOP OF SUB-GRADE ELEVATION

E. IF AT ANY TIME DURING CONSTRUCTION ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, WORK IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED FROM THE ENGINEER. : UNSUITABLE MATERIAL, SUCH AS TOP SOIL, WEATHERED BED ROCK, ETC., SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER (AND/OR ENGINEERING GEOLOGIST, WHERE EMPLOYED) FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE

G. NO TREES SHALL BE REMOVED OR DAMAGED WITHOUT SPECIFIC WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER. H. EXISTING TOPOGRAPHY ON THESE PLANS IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY THE ENGINEER AND MAY HAVE BEEN MODIFIED SINCE THIS SURVEY WAS PERFORMED.

FILLS IN EXCESS OF 4 FEET IN THICKNESS AND BENEATH ALL FOUNDATIONS OR PAVEMENT SECTIONS SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 COMPACTION CRITERIA. ALL OTHER STRUCTURAL FILL LESS THAN 4 FEET IN THICKNESS SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF THE ABOVE CRITERIA, OR AS DIRECTED IN GEOTECHNICAL REPORT.

J. COMPACTION TESTING WILL BE ACCOMPLISHED BY THE CONTRACTOR, OR THE CONTRACTOR WILL HAVE SUCH TESTING ACCOMPLISHED BY A SEPARATE CONTRACTOR. TEST RESULTS WILL BE SUBMITTED FOR REVIEW WITHIN 24 HOURS AFTER TEST. K. CONTRACTOR TO SUBMIT PROCTOR AND/OR MARSHALL TEST DATA WITHIN 24 HOURS OF TEST

L. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON M. ALL SLOPES IN ADJOINING STREETS, DRAINAGE CHANNELS, OR OTHER FACILITIES SHALL BE GRADED NO STEEPER THAN 2 TO 1

A. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY ONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE

OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF

FOR CUT AND FILL, UNLESS APPROVED RETAINMENT STRUCTURES ARE INSTALLED AS APPROVED BY BUILDING OFFICIAL.

B. CONTRACTOR SHALL INSTALL EROSION CONTROLS (SILT FENCES, STRAW BALES, ETC.) AS REQUIRED BY REGULATORY AGENCIES. SAID CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH AGENCY STANDARDS AND FOLLOWING BEST MANAGEMENT PRACTICES FOR ACTUAL PLACEMENT ON SITE. STRAW BALES SHOWN ON THESE DRAWINGS ARE INTENDED AS A MINIMUM REQUIREMENT.
ADDITIONAL CONTROLS REQUESTED BY AGENCY INSPECTORS SHALL BE REQUIRED. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS

C. CONTRACTOR AGREES THAT:

1. THEY SHALL BE RESPONSIBLE TO CLEAN THE JOB SITE AT THE END OF EACH PHASE OF WORK. . THEY SHALL BE RESPONSIBLE TO REMOVE AND DISPOSE OF ALL TRASH, SCRAP AND UNUSED MATERIAL AT THEIR OWN

3. THEY SHALL BE RESPONSIBLE TO MAINTAIN THE SITE IN A NEAT, SAFE AND ORDERLY MANNER AT ALL TIMES. 4. THEY SHALL BE RESPONSIBLE TO KEEP MATERIALS, EQUIPMENT, AND TRASH OUT OF THE WAY OF OTHER CONTRACTORS SO

AS NOT TO DELAY THE JOB. FAILURE TO DO SO WILL RESULT IN A DEDUCTION FOR THE COST OF CLEAN UP FROM THE FINAL 5. THEY SHALL BE RESPONSIBLE FOR THEIR OWN SAFETY, TRAFFIC CONTROL, PERMITS, RETESTING AND REINSPECTIONS AT

6. UNLESS OTHERWISE NOTED, ALL EXCESS SOILS AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.

7. CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC 8. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.

9. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.

D. FOR ALL WORK WITHIN PUBLIC RIGHTS-OF-WAY OR EASEMENTS. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES AND PROVIDE THE NECESSARY CONSTRUCTION TRAFFIC CONTROL. CONTRACTOR SHALL, THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE NECESSARY REGULATORY AGENCIES, THE NEED FOR ANY TRAFFIC ROUTING PLAN. IF PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE PROPER APPROVALS PRIOR D BEGINNING CONSTRUCTION. WORK IN EASEMENT AND/OR RIGHTS-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE REGULATORY AGENCY RESPONSIBLE FOR OPERATION AND/OR MAINTENANCE OF SAID RIGHT-OF-WAY. ALL CONSTRUCTION WORK IN UDOT RIGHT-OF-WAY SHALL BE SUBJECT TO INSPECTION BY THE STATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT INSPECTIONS TAKE PLACE WHERE AND WHEN REQUIRED AND TO INSURE THAT ALL WORK IN COMPLETED TO UDOT STANDARDS.

A. SUB-GRADE PREPARATION: SUB-GRADE SHALL BE COMPACTED TO A 95 PERCENT RELATIVE COMPACTION TO A MINIMUM DEPTH OF INCHES. UPW SPECIFICATION SECTION 02227 SHALL BE FOLLOWED IN BACKFILLING FOR PAVEMEN AGGREGATE SUB-BASE: AGGREGATE BASE SHALL BE GRANULAR BACKFILL BORROW PER (UPW) SECTION 02205. AGGREGATE SUB-BASE MATERIAL SHALL BE CLEAN AND FREE FROM VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCES. AGGREGATE HALL COMPLY WITH THE GUIDELINE REQUIREMENTS FOR PAVEMENTS FOUND IN THE PROFESSIONALLY PREPARED SOILS

C. AGGREGATE BASE: AGGREGATE BASE SHALL BE GRADE 3/4 UNTREATED BASE COURSE PER UPW 02286, AND SHALL COMPLY WITH

D. ALL MANHOLE RIMS, LAMPHOLES, VALVES AND MONUMENT BOXES, ETC., SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET AVING, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR SAID FACILITIE

E. CONTRACTOR SHALL INSPECT THIS SITE AND MEET WITH THE OWNER TO DISCUSS ASPHALT OVERLAY AND PROVIDE A PROPOSAL FOR NEW ASPHALT FOR THE ENTIRE SITE. THE PROPOSAL MUST INCLUDE THE REPAIR. REPLACEMENT AND PATCHING OF ALL AREAS PRIOR TO ANY FINAL ASPHALT COATING OR OVERLAY. ALTERNATIVES, REPAIRS AND OPTIONS MUST INCLUDE A WARRANTY PERIOR FOR SUCH SERVICES. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS AS AGREED BY WRITTEN PROPOSAL. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CLIT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENTS SHALL BE MADE FOR SUCH WORK.

A. NOTIFY OCSD PUBLIC WORKS INSPECTOR AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. B. ALL CONSTRUCTION SHALL CONFORM WITH THE CURRENT OCSD SPECIFICATIONS AND DETAILS FOR MUNICIPAL CONSTRUCTION

AND/OR OTHER REQUIREMENTS AS SET FORTH IN THE FINAL APPROVAL LETTER ESTABLISHED FOR THE DEVELOPMENT. C. WATER LINE TRENCHES IN PRIVATE ROADWAYS OR TRAFFIC AREAS ARE TO BE THOROUGHLY COMPACTED UNTIL 95 PERCENT OF MAXIMUM DENSITY PER ASTM D1557 IS ACHIEVED. DENSITY CHECKS MAY BE REQUIRED BY THE OCSD AT ANY TIME.

D. MINIMUM OF 48 INCHES OF COVER FROM THE TOP OF THE PIPE TO THE FINISH GRADE IS REQUIRED.

E. USE PRESSURE RATED 350 PSI OR BETTER DUCTILE IRON PIPE, OR AS APPROVED BY OCSD CODE.

F. LOCATE VALVES ON PROPERTY CORNERS OR CURB POINTS OF CURVATURE.

G. ALL DEAD ENDS TO BE PLUGGED WITH A 2 INCH WASHOUT. H. ALL WATER LINES SHALL BE POLY-BAGGED IN ACCORDANCE WITH OCSD SPECIFICATIONS AND DETAILS FOR MUNICIPAL

A. FORMS. USE PLYWOOD, OSB, METAL, METAL-FRAMED PLYWOOD, OR OTHER APPROVED PANEL-TYPE MATERIALS TO PROVIDE FULL-DEPTH, CONTINUOUS, STRAIGHT, SMOOTH EXPOSED SURFACES. FOR FORM RELEASE, COAT FORMS WITH COMMERCIALL ORM-RELEASE AGENT THAT WILL NOT BOND WITH, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES.

B. REINFORCEMENT BARS. ASTM A 615/A 615M, GRADE 60, DEFORMED.

C. PLAIN STEEL WIRE. ASTM A 82, AS DRAWN.

CONSTRUCTION, OR AS REQUIRED BY OCSD CODE.

D. CONCRETE MATERIALS. COMPLY WITH REQUIREMENTS OF APPLICABLE DIVISION 3 SECTIONS, OR GENERAL STRUCTURAL NOTES FOR CONCRETE MATERIALS, ADMIXTURES, BONDING MATERIALS, CURING MATERIALS AND OTHERS AS REQUIRED

E. EXPANSION AND ISOLATION-JOINT-FILLER STRIPS. ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER. F. CONTRACTION JOINTS. GROOVED EDGE OF 1/4 INCH RADIUS OR 1/8 INCH WIDE SAWED JOINTS.

G. EDGING. 1/4 INCH RADIUS.

H. BROOM FINISH. MEDIUM TO FINE TEXTURED - DRAW A SOFT BRISTLE BROOM ACROSS FLOAT-FINISHED CONCRETE SURFACE PERPENDICULAR TO LINE OF TRAFFIC TO PROVIDE A UNIFORM, FINE-LINE TEXTURE. MEDIUM TO COARSE TEXTURED - PROVIDE A COURSE FINISH BY STRIATING FLOAT-FINISHED CONCRETRE SURFACE 1/16 INCH TO 1/8 INCH DEEP WITH A STIFF-BRISTLED BROOM FLEXIBLE PAVEMENT - ASPHALT PAVEMENT

A. SUB-BASE MATERIALS SHALL BE AS SPECIFIED IN PLANS. THE BASE COURSE SHALL BE BITUMINOUS CONCRETE CONSISTING OF COURSE AND FINE AGGREGATE COMBINED WITH ASPHALT CEMENT, RESULTING IN A MIXTURE OF TYPE BM-2. THE SURFACE COURSE SHALL BE BITUMINOUS CONCRETE CONSISTING OF CRUSHED STONE, CRUSHED SLAG OR CRUSHED GRAVEL AND THE FINE REGATE SLAG OR STONE SCREENINGS OR COMBINATION THEREOF COMBINED WITH ASPHALT CEMENT, RESULTING IN A MIXTURE B. GRADING - THOROUGHLY GRADE AND PREPARE THE SUB-GRADE. BASE COAT SHALL BE A MINIMUM UNIFORM THICKNESS AFTER

COMPACTED THICKNESS SHALL BE 6 INCHES FOR PARKING STALLS AND 8 INCHES FOR ROADS, DRIVEWAYS AND AISLES OF PARKING

ASPHALT INSTALLATION - AREAS TO BE PAVED SHALL BE COVERED WITH A LAYER OF HOT ASPHALT CONCRETE SURFACING NOT LESS THAN THE THICKNESS INDICATED AFTER COMPACTION (EX: COMPACTED THICKNESS SHALL BE 2 INCHES FOR PARKING STALLS AND 2 1/2 INCHES FOR ROADS, DRIVEWAYS AND AISLES OF PARKING AREAS). PAVING ASPHALTIC CONCRETE SHALL BE DELIVERED, LAID, ROLLED AND FINISHED IN ACCORDANCE WITH LOCAL GUIDELINES. INSTALL A LIQUID ASPHALT PRIME COAT, PAVEMENT REINFORCING FABRIC, A TACK COAT, FINISH COAT AND SEAL COAT. FINISH PAVING SHALL CONFORM TO SLOPES, LINES AND FINISH

DIVISION III - CONCRETE (ALSO SEE NOTES ON STRUCTURAL SHEETS)

03300 - CAST IN PLACE CONCRETE

A. SEE STRUCTURAL DRAWINGS FOR DESIGN CRITERIA AND REQUIREMENTS OF ALL STRUCTURAL AND GENERAL CONCRETE AND

s. AGGREGATE BASE. GRAVEL, MINIMUM SIZE 1 INCH, NOT MORE THAN 20 PERCENT PASSING A NO. 200 SIEVE. REFER TO DRAWINGS FOR REQUIRED THICKNESS OF BASE MATERIAL.

C. JOINT FILLER. FIBERBOARD MATERIAL IN THICKNESS INDICATED.

D. FOR ALL EXTERIOR CONCRETE PAVING REFER TO SECTION "02520 - CONCRETE PAVING."

E. COMPLY WITH COLD WEATHER INSTALLATION REQUIREMENTS

F. CLEAN CONCRETE AND ADJACENT SURFACES AT COMPLETION OF WORK.

REQUIRED TO MEET CONSTRUCTION SCHEUDULE OF OTHER TRADES

DIVISION IV - MASONRY (NOT USED)

DIVISION V - METALS 05500 - METAL FABRICATIONS

A. MISCELLANEOUS METAL FABRICATIONS ARE AS INDICATED ON DRAWINGS AND ARE TO BE DELIVERED TO THE JOB SITE PRIMED AND READY FOR PAINT. INCLUDE ALL BRACKETS AND FASTENERS REQUIRED FOR INSTALLATION. COUNTER TOP SUPPORT BRACKETS TO BE INSTALLED IN CMU AND STUD WALLS ARE PART OF THIS SECTION ARE TO BE PROVIDE TO GENERAL CONTRACTOR WHEN

B. ALL MISCELLANEOUS METAL FABRICATIONS SHALL COMPLY WITH REQUIREMENTS OF THE GENERAL'S STRUCTURAL NOTES AND STRUCTURAL DRAWINGS.

DIVISION VI - CARPENTRY 06100 - ROUGH CARPENTRY

A. FURNISH ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS TO COMPLETE WORK UNDER THIS HEADING AS INDICATED ON THE DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS.

B. MATERIALS. PROVIDE NEW LUMBER BEARING THE GRADE AND TRADEMARK OF THE ASSOCIATION UNDER WHOSE RULES IT WAS

C. SEE STRUCTURAL DRAWINGS AND NOTES FOR REQUIREMENTS FOR STRUCTURAL WOOD, INCLUDING FRAMING, SHEATHING AND D. PRESERVATIVE-TREATED MATERIALS. AWPA C2 LUMBER AND AWPA C9 PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OF REVIEW. AFTER TREATMENT, KILN-DRY PLYWOOD AND LUMBER TO 15 & 19 PERCENT MOISTURE CONTENT RESPECTIVELY. TREAT INDICATED ITEMS AND THE CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE. ALL

WOOD LOCTED NEARER THAN 6 INCHES TO EARTH OR WHERE LOCATED ON SLABS PLACED ON EARTH SHALL BE TREATED PER IBC

E. BUILDING PAPER. POLYOLEFIN MATERIAL COMPLYING WITH ASTM E 1677, TYPE I, WITH MINIMUM WATER-VAPOR TRANSMISSION OF

F. PAPER-SURFACED GYPSUM WALL SHEATHING. ASTM C 79/C 79M, WITH WATER RESISTANT MATERIAL INCORPORATED INTO THE CORE AND WITH WATER-REPELLENT PAPER BONDED TO CORE'S FACE, BACK AND LONG EDGES. **DIVISION VII - THERMAL & MOISTURE PROTECTION**

07210 - INSULATION

A. AS SELECTED BY OWNER OR PROVIDED BY BUILDING MANUFACTURER.

07412 - METAL WALL AND ROOF PANELS

A. 26-GAGE CORRUGATED WALL AND ROOF PANELS SIMILAR TO NU-WAVE CORRUGATED AS MANUFACTURED BY IMSA BUILDING PRODUCTS OR BHP STEEL BUILDING PRODUCTS WITH 7/8" DEEP CORRUGATIONS, OR SIMILAR AS SELECTED BY OWNER AND APPROVED BY ENGINEER AND/OR BUILDING OFFICIAL.

B. FINISH. PARAPET SIDING, ROOF, PARAPET CAP COLOR TO BE SELECTED BY ARCHITECT OR OWNER FROM MFGR STANDARD

C. TRIM PACKAGE AS REQUIRED FOR A COMPLETE INSTALLATION D. WARRANTY ENTIRE BUILDING SYSTEM FOR 20 YEARS.

07460 - SOFFIT, TRIMS & FASCIA A. ALLUMINUM SOFFIT AND FASCIA. VENTED AS APPROPIRATE, AND COLOR TO MATCH OR COMPLEMENT COLORS OF PRIMARY METAL

STRUCTURE. 07600 - SHEET METAL FLASHING, GUTTERS & DOWNSPOUTS

A. GENERAL. ALL SHEET METAL TO COMPLY WITH "SMACNA" STANDARDS, LATEST EDITION

B. GUTTERS AND DOWN SPOUTS. WHERE INDICATED ON DRAWINGS, GUTTERS, STEEL 4"x4", 24 GAGE, FINISH PROFILE AS SELECTED OWNER, WITH DOWNSPOUTS SIZE 2"x3", W/ FINISH AS SELECTED BY OWNER, CONNECT TO DRAIN SYSTEM, OR AS OTHERWISE

C. SHEET METAL FLASHING. 24-GAGE STEEL, FINISH TO MATCH ROOFING. WORK TO COMPLY WITH SMACNA RECOMMENDATION ALL FLASHING REQUIRED FOR ROOF INTEGRITY IS BY ROOFING CONTRACTOR. FLASHING IS TO BE PREPAINTED, COLOR TO MATCH OR COMPLEMENT PRIMARY METAL STRUCTURE, AS SELECTED BY OWNER. D. FINISH. PROVIDE 2-PART HIGH-PERFORMANCE ORGANIC COATING FINISH COLOR AND GLOSS AS SELECTED BY ARCHITECT OR

A. ROOF SCUTTLE EQUIVALENT TO BILCO VERSAMOUNT S-20VM ACCESS HATCH. PROVIDE LADDER-UP POST.

B. SEAL TO EXISTING BUILDING. PROVIDE POSITIVE SEAL BETWEEN NEW ROOFING METAL AND EXISTING METAL INSULATED PANEL IG WITH BOTH SEALANT AND MECHANICAL JOINTS SUCH THAT WATER WILL NOT PENETRATE INSIDE. COMPLY WITH DIRECTIONS AND DRAWING DETAILS OF METAL BUILDING PROVIDER.

A. PROVIDE CAULKING AND SEALANTS FOR ALL INTERIOR AND EXTERIOR JOINTS. PROVIDE FIRE SEALANTS WHERE REQUIRED AND B. PROVIDE MINIMUM ONE-YEAR WARRANTY ON ALL SEALANTS.

DIVISION VIII - WINDOWS & DOORS

08110 - STEEL DOORS AND FRAMES A. STEEL DOORS. 1-3/4" THICK, MATERIALS AND ANSI/SDI 100 GRADES AND MODELS SPECIFIED, OR AS INDICATED ON DRAWINGS OF SCHEDULES. EXTERIOR DOORS TO BE HOLLOW METAL INSULATED AND PAINTED, PROVIDE INSULATED GLASS WHERE INDICATED

B. STEEL FRAMES. FABRICATED STEEL FRAMES TO BE RIGID, NEAT IN APPEARANCE AND FREE FROM DEFECTS, WARP OR BUCKLING

PROVIDE UNITS WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS, FORMED FROM 0.0635-INCH THICK, GALVANIZED C. PREPARE DOORS AND FRAMES TO RECEIVE HARDWARE ACCORDING TO SDI 107.

D. THRESHOLDS. ALL EXTERIOR PERSONNEL DOORS TO RECEIVE METAL THRESHOLDS, THE KIND AND INSTALLATION METHOD AS RECOMMENDED AND DETAILED BY DOOR MANUFACTURER. 08361 - SECTIONAL OVERHEAD DOOR

A. MANUALLY OPERATED ALUMINUM DOORS WITH STANDARD METAL INSULATED PANELS WITH WEATHER SEALS AND MFGRS STANDARD HARDWARE INCLUDING SLIDE BOLT AND PUSH-PULL HANDLES AND TORSION SPRINGS, AS SELECTED BY OWNER. B. ADJUST AND CLEAN AS REQUIRED UPON CONSTRUCTION COMPLETION.

08630 - WINDOWS A. METAL MULLION WINDOWS. AS SELECTED BY OWNER.

B. GLAZING. TO BE INSULATED LOW "E" TO MATCH OR COMPLEMENT PRIMARY METAL STRUCTURE, OR AS SELECTED BY OWNER A. HARDWARE SCHEDULE. SUBMIT PROPOSED HARDWARE SCHEDULE. COORDINATE HARDWARE WITH DOORS, FRAMES AND

B. PRODUCT DATA. SUBMIT MFGRS TECHNICAL PRODUCT DATA FOR EACH ITEM OF HARDWARE. INCLUDE WHATEVER INFORMATION MAY BE NECESSARY TO SHOW COMPLIANCE WITH REQUIREMENTS, AND INCLUDE INSTRUCTIONS FOR INSTALLATION AND FOR MAINTENANCE OF OPERATING PARTS AND FINISH. C. KEYING SCHEDULE. SUBMIT SEPARATE DETAILED SCHEDULE INDICATING CLEARLY HOW THE OWNER'S FINAL KEYING OF LOCKS

D. PROVIDED QUALITY OF FINISH, INCLUDING THICKNESS OF PLATING OR COATING (IF ANY), COMPOSITION, HARDNESS AND OTHER

HARDWARE BY REFERENCED STANDARDS. ALL HARDWARE SHALL BE US26D FINISH, EXCEPT AS NOTED OTHERWISE.

RELATED WORK TO ENSURE PROPER SIZING, THICKNESS, HAND, FUNCTION AND FINISH OF HARDWARE.

A. WINDOWS, DOORS, GLAZED ENTRANCES, INTERIOR BORROWED LITES, POLYCARBONATE GLAZING.

1. PRIMARY FLOAT GLASS ASTM C 1036, TYPE 1, QUALITY Q3. 2. HEAT-TREATED FLOAT GLASS ASTM C 1048, TYPE 1, QUALITY Q3

3. INSULATED GLASS PREASSEMBLED UNITS ASTM E 774 FOR CLASS CBA. OF THICKNESS REQUIRED FOR CONDITION AND FOR WINDOW PERFORMANCE SPECIFIED. INDOOR AND OUTDOOR LITE TO BE FLOAT GLASS, CLASS 1, CLEAR ANNEALED, LOW-EMISSIVIT COATING ON THIRD SURFACE.

4. POLISHED WIRE GLASS ASTM C 1036, TYPE II, CLASS 1, QUALITY Q8, MESH M2 SQUARE PATTERN.

5. LAMINATED GLASS ASTM C 1172. 6. POLYCARBONATE GLAZING EQUIVALENT TO LEXAS MR10 SHEET CLEAR WITH TRANSLUCENT FINISH, 15-YEAR REPLACEMENT

09900 - PAINTS & COATINGS A. GENERAL REQUIREMENTS. PROVIDE ALL PAINTING TO COMPLETE THE WORK. INSPECT WORK OF OTHERS PRIOR TO APPLICATION AND NOTIFY THE GENERAL CONTRACTOR OF ANY SURFACES NOT PROPERLY PREPARED FOR FINISHING OR ASSURE RESPONSIBILITY

B. INTENT OF THESE SPECIFICATIONS IS TO PROVIDE A SATISFACTORY FINISH TO ALL PARTS OF THE BUILDING UNLESS NOTED

INTENT, THE CONTRACTOR SHALL APPY ADDITIONAL COATS OF MATERIAL UNTIL SATISFACTORY COVERAGE IS ACHIEVED.

OTHERWISE. ALL SURFACES SHALL BE THOROUGHLY COVERED. IF NUMBER OF COATS SPECIFIED DOES NOT ACCOMPLISH THIS

C. WORKMANSHIP SHALL BE OF THE VERY BEST QUALITY. ALL MATERIALS SHALL BE APPLIED UNDER ADEQUATE ILLUMINATION, EVENLY SPACED AND SMOOTHLY FLOWED ON WITHOUT RUNS OR SAGS. FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR THE

D. PAINT SCHEDULE - COLORS TO BE SELECTED BY OWNER.

EXTERIOR: FERROUS METALS.

DIVISION IX - FINISHES

HAS BEEN FULFILLED

FIRST COAT - KWALL-HOWELLS 9210 RUST INHIBITIVE PRIMER NOTE - FIRST COAT NOT REQUIRED ON ITEMS DELIVERED SHOP PRIMED; TOUCH UP ONLY AS REQUIRED. SECOND COAT - KWALL-HOWELLS 9800 SERIES HIGH GLOSS ENAMEL THIRD COAT - KWALL-HOWELLS 9800 SERIES HIGH GLOSS ENAMEL.

2. ALUMINUM SIDING. BAKED ENAMEL FINISH PERFORMED BY MANUFACTURER AND AS SELECTED BY OWNER.

3. EXTERIOR LOUVERS. PER MANUFACTURER'S INSTRUCTIONS

1. GYPSUM STANDARD DRYWALL SYSTEMS. FIRST COAT - KWAL-HOWELLS 0880 PVA PRIMER SECOND COAT - KWAL-HOWELLS 3000 SERIES LATEX SEMIGLOSS

THIRD COAT - KWAL-HOWELLS 3000 SERIES LATEX SEMIGLOSS 2. FERROUS METALS. FIRST COAT - KWAL-HOWELLS 9210 RUST INHIBITIVE METAL PRIMER. FIRST COAT NOT REQUIRED ON ITEMS THAT ARE SHOP

PRIMED, NOT LESS THAN 4.5 MILS DRY FILM THICKNESS. SECOND COAT - KWAL-HOWELLS ACCU-TONE LATEX SEMIGLOSS 3000 THIRD COAT - KWAL-HOWELLS ACCU-TONE LATEX SEMIGLOSS 3000

3. CONCRETE FLOOR SEALER - OR AS SELECTED BY OWNER.

FIRST COAT - OKON W-1 WATER REPELLENT SECOND COAT - OKON W-1 WATER REPELLENT

DIVISION X - SPECIALTIES

10431 - SIGNS. BY OWNER 10520 - FIRE EXTINGUISHER EQUIPMENT

A. MOUNTING BRACKET. MFGR'S STD STEEL, DESIGNED TO SECURE FIRE EXTINGUISHER TO WALL OR STRUCTURE, OF SIZE REQUIRED (VERIFY BRACKET SIZE WITH OWNER), WITH PLATED OR BAKED-ENAMEL FINISH.

B. FIRE EXTINGUISHERS TO BE PROVIDED BY OWNER.

DIVISION XIII - SPECIAL CONSTRUCTION

13120 - METAL BUILDING SYSTEM PART 1 - GENERAL

A. SYSTEM PERFORMANCE REQUIREMENTS

. METAL BUILDING SYSTEM DESIGN. OF SIZE, SPACING, SLOPE AND SPANS INDICATED. PRIMARY RIGID FRAME TO BE RIGID MODULAR, SOLID-MEMBER STRUCTURAL-FRAMING SYSTEM WITH INTERIOR COLUMNS.

2. END-WALL FRAMING. MFGR'S STANDARD FOR BUILDINGS NOT REQUIRED TO BE EXPANDABLE. PROVIDE LOAD-BEARING END WALL AND CORNER COLUMNS.

3. SECONDARY FRAME TYPE. MFGR'S STANDARD RAFTERS AND FLUSH-FRAMED GIRTS.

4. EAVE HEIGHT. AS INDICATED BY NOMINAL HEIGHT ON DRAWINGS.

5. BAY SPACING. AS INDICATED ON DRAWINGS. 6. ROOF SLOPE. AS INDICATED ON DRAWINGS, VIA DIMENSION OR AS SCALED.

B. SUBMITTALS. SHOP DRAWINGS - FOR THE FOLLOWING METAL BUILDING SYSTEM COMPONENTS, INCLUDE PLANS, ELEVATIONS, . FOR INSTALLED COMPONENTS INDICATED TO COMPLY WITH DESIGN LOADS, INCLUDE STRUCTURAL ANALYSIS DATA SIGNED

AND SEALED BY THE QUALIDIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. ENGINEER MUST BE LICENSED IN

2. ANCHOR-BOLT PLANS. INCLUDE LOCATION, DIAMETER, AND PROJECTION OF ANCHOR BOLTS REQUIRED TO ATTACH METAL BUILDING TO FOUNDATION. INDICATE COLUMN REACTIONS AT EACH LOCATION. STRUCTURAL FRAMING DRAWINGS. SHOW COMPLETE FABRICATION OF PRIMARY AND SECONDARY FRAMING. INDICATE

WELDS AND BOLTED CONNECTIONS, DISTINGUISHING BETWEEN SHOP AND FIELD APPLICATIONS. INCLUDE TRANSVERSE CROSS

PART 2 - PRODUCTS A. FABRICATION, GENERAL. DESIGN COMPONENTS AND FIELD CONNECTIONS REQUIRED FOR ERECTION TO PERMIT EASY ASSEMBLY

1. MARK EACH PIECE AND PART OF THE ASSEMBLY TO CORRESPOND WITH PREVIOUSLY PREPARED ERECTION DRAWINGS, DIAGRAMS, AND INSTRUCTION MANUALS. PARTICATE FRAMING TO PRODUCE CLEAN, SMOOTH CUTS AND BENDS. PUNCH HOLES OF PROPER SIZE, SHAPE AND LOCATION. COLD-FORMED MEMBERS SHALL BE FREE OF CRACKS, TEARS AND RUPTURES.

1. RIGID MODULAR FRAMES, I-SHAPED FRAME SECTIONS FABRICATED FROM SHOP-WELDED, BUILT-UP STEEL PLATES OR STRUCTURAL-STEEL SHAPES. PROVIDE INTERIOR COLUMNS FABRICATED FROM ROUND STEEL PIPE OR TUBE, OR SHOP-WELDED,

2. FRAME CONFIGURATION. SINGLE GABLE, DOUBLE GABLE.

3. EXTERIOR COLUMN. TAPERED, STRAIGHT.

STRUCTURAL-STEEL SHAPES; MINIMUM 2-1/2" WIDE FLANGES.

OFFICIAL AND TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

BUILT IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY.

TO THE WITHIN FIFTEEN (15) DAYS OF SUBSTANTIAL COMPLETION.

DEMARK; SERIAL NUMBER; AND UL OR FM LABEL.

4. RAFTER TYPE. UNIFORM DEPTH 5. END-WALL AND CORNER COLUMNS. I-SHAPED SECTIONS FABRICATED FROM STRUCTURAL STEEL SHAPES; SHOP-WELDED, BUILT-UP STEEL PLATES; OR C-SHAPED, COLD-FORMED, STRUCTURAL-STEEL SHEET; WITH MINIUM THICKNESS OF 0.0747 INCH.

6. PURLINS. C- OR Z-SHAPED SECTIONS; FABRICATED FROM MINIMUM 0.0598 INCH THICK STEEL, BUILT-UP STEEL PLATES, OR

7. GIRTS. E- OR Z-SHAPED SECTIONS: FABRICATED FROM MINIMUM 0.0598-INCH THICK STEEL SHEET. BUILT-UP STEEL PLATES. OR STRUCTURAL-STEEL SHAPES. FORM ENDS OF Z-SECTIONS WITH STIFFENING UPS ANGLED 45 TO 50 DEGREES TO FLANGE AND WITH MINIMUM 2-1/2" WIDE FLANGES. 8. FRAMING FOR OPENINGS. CHANNEL SHAPES; FABRICATED FROM MINIMUM 0.0598-INCH THICK, COLD-FORMED, STRUCTURAL STEEL SHEET OR STRUCTURAL-STEEL SHAPES. FRAME HEAD AND JAMB OF DOOR OPENINGS, HEAD, JAMB AND SILL OF OTHER

1. ERECT METAL BUILDING SYSTEM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND ERECTION DRAWINGS

PART 3 - EXECUTION A. ERECTION

2. DO NOT FIELD CUT, DRILL OR ALTER STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM METAL BUIDLING SYSTEM MANUFACTURER'S PROFESSIONAL ENGINEER

DIVISION XIV - CONVEYING SYTEMS (NOT USED) DIVISION XV - MECHANICAL & PLUMBING

DIVISION XVI - ELECTRICAL

13900 - FIRE SUPPRESSION SYSTEM.

16000 - GENERAL

15000 - GENERAL A. CONTRACTOR TO PROVIDE MECHANICAL AND PLUMBING CONSTRUCTION IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC), LATEST EDITION, AND ALL OTHER REFERENCES NOTED HEREIN ON PLANS. CONTRACTOR TO PROVIDE MECHANICAL AND PLUMBING DESIGN, INCLUDING PLANS, LOAD ANALYSES, COMCHECK, ISOMETRIC PLANS, AND FIXTURE SPEC SHEETS TO BUILDING

A. CONTRACTOR TO PROVIDE INTERIOR AND EXTERIOR ELECTRICAL CONSTRUCTION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL OTHER REFERENCES NOTED HEREIN ON PLANS. CONTRACTOR TO PROVIDE ELECTRICAL DESIGN, INCLUDING SINGLE-LINE POWER DRAWINGS. LIGHTING & RECEPTACLE PLANS. LOAD ANALYSES. SINGLE-LINE POWER DIAGRAM. AND PROPOSED ELECTRICAL FIXTURE SPEC SHEETS TO BUILDING OFFICIAL AND TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

R DESIGN OF EXTENSION TO BE PERFORMED BY QUALIFIED FIRE PROTECTION SPECIALIST AND SUBMITTED TO BUILDING OFFICIAL / FIRE MARSHALL FOR APPROVAL EITHER PRIOR TO OR DURING CONSTRUCTION AS A DEFERRED SUBMITTAL. C. CONTRACTOR TO PROVIDE ALL PIPING, VALVES, BACKFLOW PREVENTER, SPRINKLERS, ALARM DEVICES, FIRE DEPARTMEN CONNECTIONS, FIRE PUMP AND CONTROLLER, PRESSURE MAINTENANCE PUMP AND CONTROLLER, AND OTHER MATERIAL NECESSARY TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM TO PROTECT THE SPECIFIED BUILDING AREAS IN ACCORDANCE WITH DESIGN

REQUIREMENTS. EACH ITEM OF EQUIPMENT SHALL BE CAPABLE OF PERFORMING ITS FUNCTION OVER AN EXTENDED PERIOD OF TIM

WITH A MINIMUM OF ATTENTION AND MAINTENANCE. ALL EQUIPMENT SHALL BE CONSTRUCTED USING NEW MATERIALS DESIGNED AND

D. EACH ITEM OF EQUIPMENT SHALL BE LISTED ON THE UNDERWRITERS LABORATORIES (UL) FIRE PROTECTION EQUIPMENT LIST OR

. AS REQUIRED, FIVE (5) COPIES OF THE MANUFACTURERS' OPERATING MANUALS AND MAINTENANCE MANUALS SHALL BE SUPPLIED

FACTORY MUTUAL (FM) APPROVAL GUIDE. EACH MAJOR ITEM OF EQUIPMENT SHALL BEAR THE MANUFACTURER'S NAME OR

A. EXISTING SPRINKLER SYSTEM, DETECTION MECHANISMS AND ALARMING DEVICES TO BE EXTENDING INTO NEW ADDITION.

 \bigcirc (\mathcal{O}) \bigcirc 0 \perp \bigcirc \bigcirc

 0∞

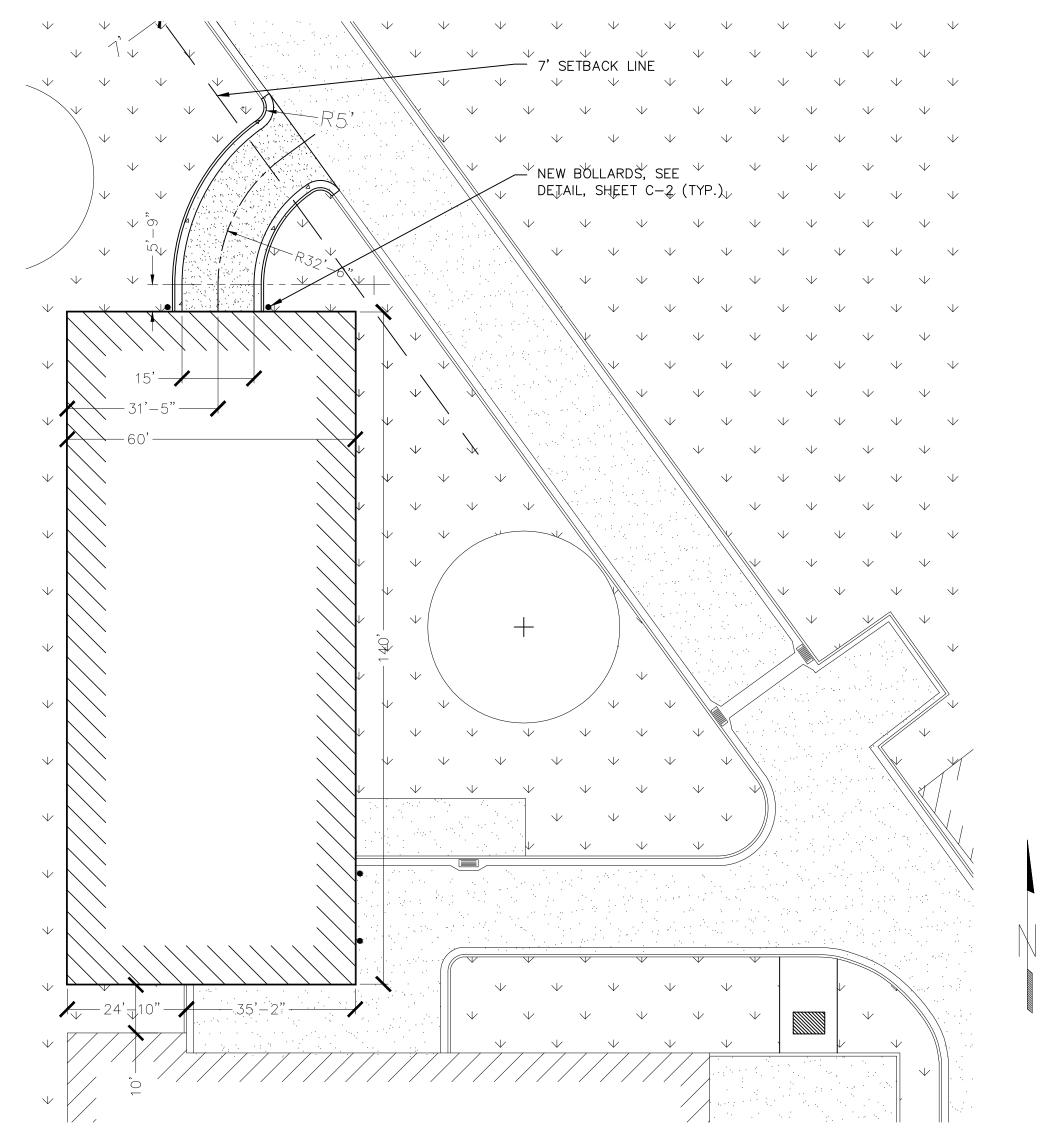
 \Box

 \bigcirc \perp

5082849-2203

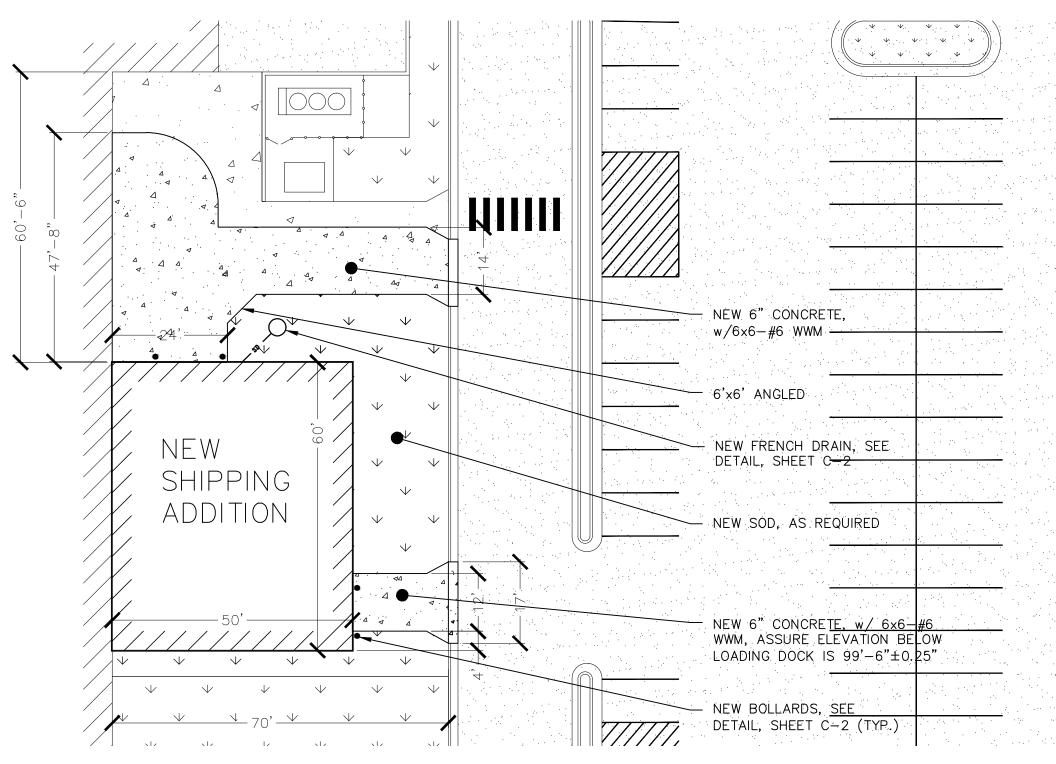
Z 5 \mathbf{C} D. 00 \sim တ် လဲ \bigcirc \sim

EXISTING SITE & DEMOLITION PLAN Scale: 1" = 40'-0"



NEW SITE PLAN - PARKING BUILDING

Scale: 1" = 20' - 0"



NEW SITE PLAN - SHIPPING ADDITION Scale: 1" = 20'-0"

CONCRETE ASPHALT PAVING GRAVEL SURFACE

- 1. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 2. CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO THE NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 3. CONTRACTOR TO MODIFY THE EXISTING LAWN (SOD) SPRINKLER SYSTEM. SUBMIT PLANS TO ARCHITECT—ENGINEER AND TO BUILDING OFFICIAL PRIOR TO CONSTRUCTION.
- 4. LANDSCAPING IS ALTERED ONLY TO THE EXTENT OF EXTENDING EXISTING LANDSCAPE TREATMENTS AROUND THE BUILDING ADDITION, AND MINOR DEMOLITION AS SHOWN.
- 5. STORM WATER MANAGEMENT. LAND SURFACE MATERIAL CHANGES INCREMENTALLY TO A DIFFERENT COMBINATION OF ASPHALT, CONCRETE, SOD SHRUBS, NATIVE VEGETATION AND BUILDINGS. THE CHANGE IN SURFACE WATER RUNOFF IS MINIMAL.
- 6. CURB & GUTTERS. CONTRACTOR TO REPLACE ALL CURB & GUTTER THAT IS DISPLACE, BROKEN OR OTHERWISE IMPAIRED DURING CONSTRUCTION TO ITS FORMER CONDITION TO AT LEAST THE FIRST JOINT BEYOND EXTENTS OF CONSTRUCTION.
- 7. OTHER SITE DAMAGES. ALL DETERIORATED, DAMAGED OR MISSING SURFACE IMPROVEMENTS WITHIN THE EXTENTS OF CONSTRUCTION TO BE REPLACED OR NEWLY INSTALLED; i.e., CURB AND GUTTER, SIDEWALK, LANDSCAPING PARK STRIP IMPROVEMENTS, ETC.
- 8. ROOF DRAINAGE & COLLECTION. CONTRACTOR TO PROVIDE DETAILS FOR ROOF DRAINAGE, SCUPPERS & COLLECTION SYSTEM, RECEIVED FROM BUILDING SUPPLIER, TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM TO ADEQUATELY DRAIN ROOF AND DISCHARGE VIA PIPELINE TO EXISTING COLLECTION SYSTEM.
- 9. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF WATER LINE FOR CONNECTION TO NEW PARKING BUILDING. APPROXIMATE LOCATION IS IMMEDIATELY WEST OF NEW BUILDING (10-20'), AND PIPE SIZE IS THOUGHT TO BE 6". NEW SEWER LINE TO BE 4" PVC.
- 10. CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SYSTEM AS DETERMINED BY BUILDING OFFICIAL.
- 11. DTHER UTILITIES (I.E., GAS, WATER, COMMUNICATIONS, ETC.) SHALL BE ACCESSED WITHIN EXISTING BUILDING AS NEEDED.
- 12. CONTRACTOR MUST MEET ALL OCSD UTILITIES SPECIFICATIONS AND
- 13. ADDITIONAL FIRE HYDRANTS ARE NOT REQUIRED TO SUPPORT NEW FACILITIES.
- 14. CONTRACTOR TO PROVIDE MODIFICATION PLAN FOR ALTERED IRRIGATION SYSTEM TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION.

Sch City 027

S

 $\overline{\circ}$

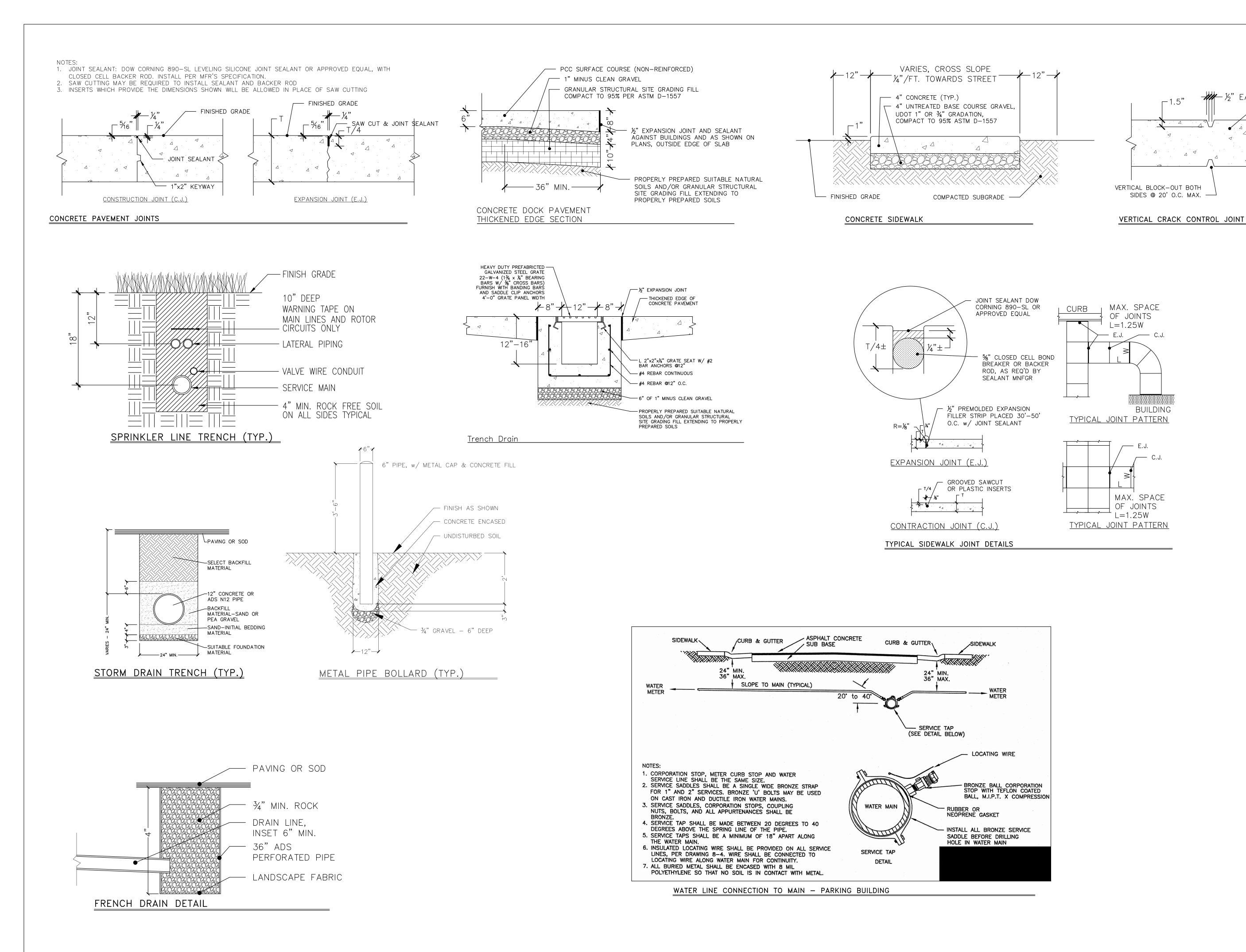
 \circ

o p

 \bigcirc

ast 801 **X**C 2107

SHEET Site Plans



 $\frac{1}{S}$ $\overline{\circ}$ ŏ∞ Scho 950 Mc en, Utc City .027 mation)gder \cdot 0 n t a m

201

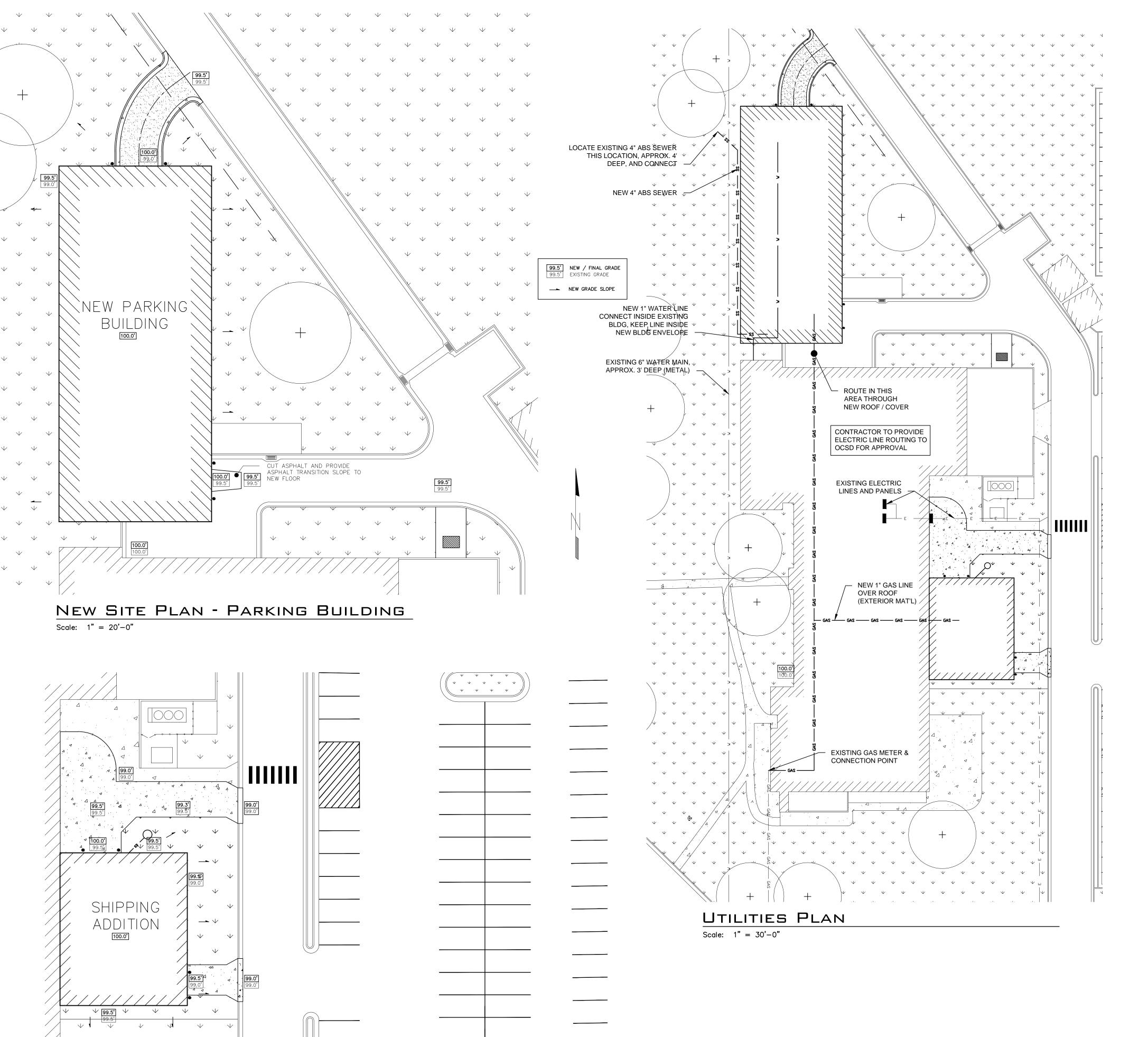
CONCRETE WALL

S4040

Z 2107

SHEET

Civil Details



CONCRETE ASPHALT PAVING GRAVEL SURFACE

- 1. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 2. CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO THE NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 3. CONTRACTOR TO MODIFY THE EXISTING LAWN (SOD) SPRINKLER SYSTEM. SUBMIT PLANS TO ARCHITECT-ENGINEER AND TO BUILDING OFFICIAL PRIOR TO CONSTRUCTION.
- 4. LANDSCAPING IS ALTERED ONLY TO THE EXTENT OF EXTENDING EXISTING LANDSCAPE TREATMENTS AROUND THE BUILDING ADDITION, AND MINOR DEMOLITION AS SHOWN.
- 5. STORM WATER MANAGEMENT. LAND SURFACE MATERIAL CHANGES INCREMENTALLY TO A DIFFERENT COMBINATION OF ASPHALT, CONCRETE, SOD SHRUBS, NATIVE VEGETATION AND BUILDINGS. THE CHANGE IN SURFACE WATER RUNOFF IS MINIMAL.
- 6. CURB & GUTTERS. CONTRACTOR TO REPLACE ALL CURB & GUTTER THAT IS DISPLACE, BROKEN OR OTHERWISE IMPAIRED DURING CONSTRUCTION TO ITS FORMER CONDITION TO AT LEAST THE FIRST JOINT BEYOND EXTENTS OF CONSTRUCTION.
- 7. OTHER SITE DAMAGES. ALL DETERIORATED, DAMAGED OR MISSING SURFACE IMPROVEMENTS WITHIN THE EXTENTS OF CONSTRUCTION TO BE REPLACED OR NEWLY INSTALLED; i.e., CURB AND GUTTER, SIDEWALK, LANDSCAPING PARK STRIP IMPROVEMENTS, ETC.
- 8. ROOF DRAINAGE & COLLECTION. CONTRACTOR TO PROVIDE DETAILS FOR ROOF DRAINAGE, SCUPPERS & COLLECTION SYSTEM, RECEIVED FROM BUILDING SUPPLIER, TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM TO ADEQUATELY DRAIN ROOF AND DISCHARGE VIA PIPELINE TO EXISTING COLLECTION SYSTEM.
- 9. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF WATER LINE FOR CONNECTION TO NEW PARKING BUILDING. APPROXIMATE LOCATION IS IMMEDIATELY WEST OF NEW BUILDING (10-20'), AND PIPE SIZE IS THOUGHT TO BE 6". NEW SEWER LINE TO BE 4" PVC.
- 10. CONTRACTOR TO LOCATE AND UTILIZE EXISTING SEWER SYSTEM AS DETERMINED BY BUILDING OFFICIAL.
- 11. OTHER UTILITIES (I.E., GAS, WATER, COMMUNICATIONS, ETC.) SHALL BE ACCESSED WITHIN EXISTING BUILDING AS NEEDED.
- 12. CONTRACTOR MUST MEET ALL OCSD UTILITIES SPECIFICATIONS AND STANDARDS.
- 13. ADDITIONAL FIRE HYDRANTS ARE NOT REQUIRED TO SUPPORT NEW FACILITIES.
- 14. CONTRACTOR TO PROVIDE MODIFICATION PLAN FOR ALTERED IRRIGATION SYSTEM TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION.

Distric

School

City 027

ŌΦ

 \circ

o p

0

ast 801 **Z** 2107

SHEET C-3

XX.X' FINAL GRADE ELEVATION

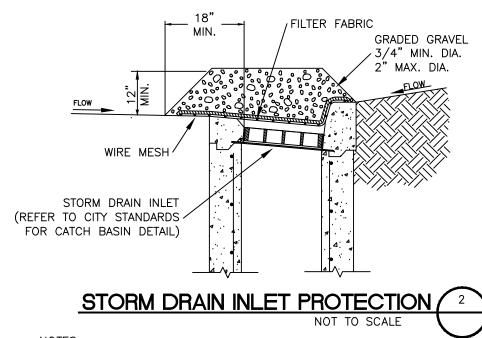
NEW SITE PLAN - SHIPPING ADDITION

Scale: 1" = 20' - 0"

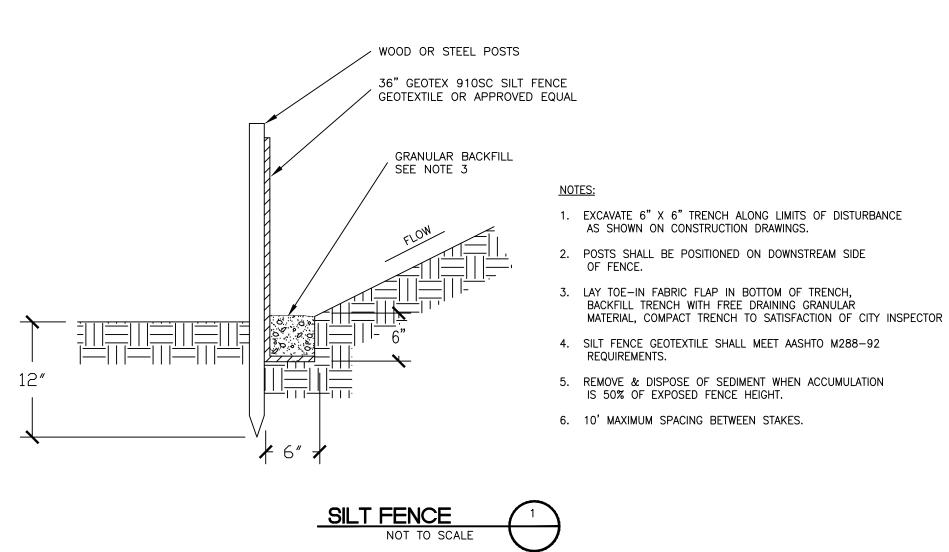
Grading & Utility Plans

EROSION CONTROL - GENERAL NOTES

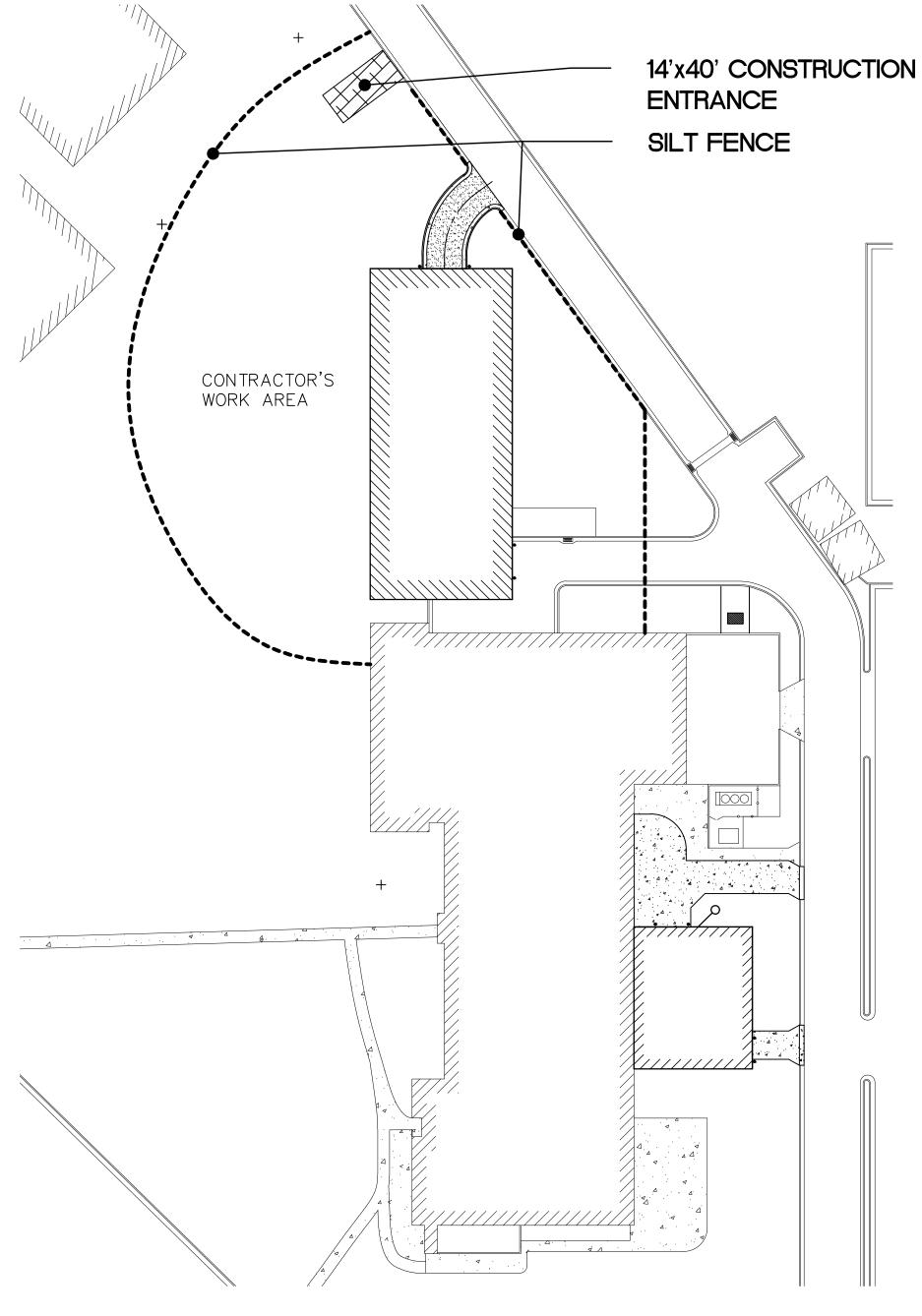
- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO CITY LAND DISTURBANCE DESIGN AND CONSTRUCTION STANDARDS UNLESS SUPERSEDED BY THESE PLANS.
- 2. THE LIMIT OF DISTURBANCE MUST BE FIELD MARKED PRIOR TO ANY LAND CLEARING. AND APPROVED BY THE CITY BUILDING OFFICIAL. CONSTRUCTION ACTIVITIES ARE LIMITED TO WITHIN THE BOUNDARIES OF SILT FENCES AND ENVIRONMENTAL FENCES DEFINING THE LIMITS OF DISTURBANCE.
- 3. CARE SHALL BE EXERCISED TO MINIMIZE DISTURBANCE OF THE ORIGINAL GROUND AND VEGETATION AT THE EDGE OF CUT AND FILL SLOPES NEAR THE LIMITS OF
- 4. ALL WORK SHALL CONFORM WITH CITY DESIGN AND CONSTRUCTION STANDARDS. CONTRACTOR TO PROVIDE DUST CONTROL AT ALL TIMES. CONTRACTOR SHALL PROVIDE THE NECESSARY MITIGATION TO KEEP DUST TO THE ACCEPTABLE LIMITS IDENTIFIED IN THE AIR QUALITY PERMIT OBTAINED FROM THE STATE OF UTAH, DEPARTMENT OF AIR QUALITY, DIVISION OF AIR QUALITY. THE CITY INSPECTOR MAY REQUIRE SOIL ADDITIVES TO CONTROL DUST. PROVISIONS TO CONTROL DUST MUST BE ON SITE AND OPERATIONAL PRIOR TO ANY LAND DISTURBANCE.
- 5. EXISTING PAVED ROADWAYS ARE TO BE KEPT CLEAN AT ALL TIMES. CONTRACTOR TO MAINTAIN STREETS TO BE FREE FROM DIRT AND DEBRIS.
- 6. SILT FENCES, TEMPORARY SEDIMENT TRAPS, TEMPORARY BERMS, AND OTHER EROSION CONTROL DEVICES ARE TO BE INSPECTED AND MAINTAINED WITHIN 24 HOURS AFTER EACH SIGNIFICANT STORM EVENT (0.5 INCHES).
- 7. TEMPORARY SEDIMENTATION BASINS AND STORM WATER MANAGEMENT FACILITIES REQUIRE A MANDATORY INSPECTION ONCE A WEEK OR WITHIN 24 HOURS OF A MAJOR STORM EVENT (0.5 INCHES) OR A SNOW MELT UNTIL ALL DISTURBED AREAS ARE STABILIZED ACCORDING TO THESE PLANS.
- 8. CONTRACTOR TO REPLACE DAMAGED EROSION CONTROL DEVICES, OR DEVICES THAT DO NOT FUNCTION PROPERLY.



- 1. PLACE WIRE MESH (WITH 1/2" OPENINGS) OVER THE INLET GRATE EXTENDING 12" PAST THE GRATE IN ALL DIRECTIONS.
- 2. PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- 3. PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12", OVER THE FILTER FABRIC AND EXTENDING 18" PAST THE GRATE IN ALL DIRECTIONS.
- 4. INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE A WEEK.
- 5. REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 50% OF ROCK FILTER HEIGHT.
- 6. REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.
- 7. CONTRACTOR MAY SUBMIT ALTERNATIVE METHOD OF INLET PROTECTION. THE ALTERNATIVE METHOD SHALL BE APPROVED BY THE CITY INSPECTOR AND THE ENGINEER OF RECORD.

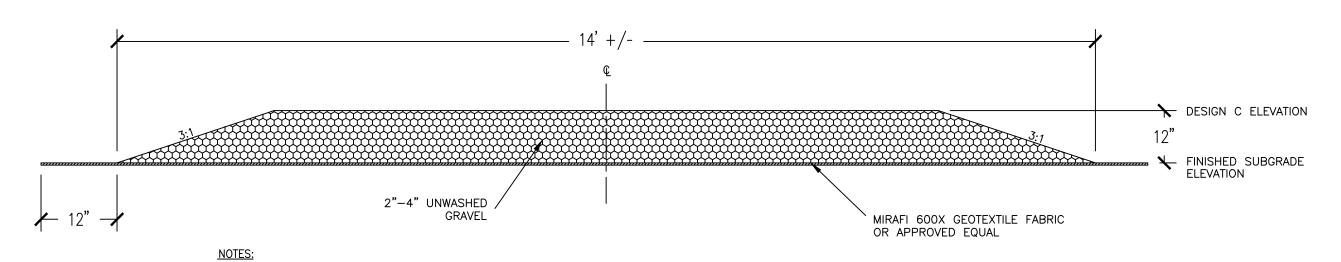


NOTE: REFER TO BUILDING OFFICIAL FOR DETAILS ON ENVIRONMENTAL REQUIREMENTS AND CONTRACTOR'S RESPONSIBILITIES.



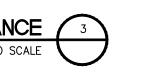
SWPPP SITE PLAN

Scale: 1" = 40'-0"



INSTALL GEOTEXTILE FABRIC PER MANUFACTURER'S RECOMMENDATIONS. REMOVE STABILIZED CONSTRUCTION ENTRANCE AND FABRIC AFTER ROAD BASE IS PLACED AND COMPACTED FOR ALL INTERIOR ROADS OF THE PLANNED UNIT DEVELOPMENT JUST PRIOR TO ASPHALT BEING PLACED. PROVIDE A 10' TRANSITION RAMP FROM FINISHED SUBGRADE ELEVATION, TO DESIGN & ELEVATION AT THE END OF STABILIZED CONSTRUCTION

CROSS SECTION OF STABILIZED CONSTRUCTION ENTRANCE



 \sum_{-} SHEET

SWPPP

Dist

School

City .027

Z 8404(

<u>Z</u> ق

D 08

nation)gder

ŏ∞

0

o p

 \cdot